

<400> 30601

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ataactaaat gtgtccccag gggctatcaa ctaaacaatt aaaacagcat tgcttatcta 180
tgtagagata gaaaattgct catgaagagt catataggat tacattgctt attaaattat 240
ttatatatta ggcaattaag gggtttaagg gcatttgggt cctccttctt tggctttcca 300
gctgtttag caagggcaaa tttgcttggt gccatatgta ccaggaggaa cccataggca 360
tttagcacia cacttttggc agaaaaacat gcatggcttc ttgtgtgaag ttgcagagca 420
acggtaagta cacttttggtt aacaa 445

<210> 30602

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055c06d1

<400> 30602

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acgaacaaaa gctatataat gaattccac actaccacgc agttcaaaat tattgcatac 180
caataatttc aagaaccctt attaactttc actttcaaag ggattggtac aacaatatca 240
tatgctaata aatataatct taagatgaag aagcaggttt ggaagatggg ttgaaaggaa 300
cctgctcagc gcatgtaagg atttcatggg gccagcctg ttctcgacca acacctagaa 360
ggccaagata atactggtaa tgggaaacga tattgttcat cgagtccaca tcaccttgtc 420
caciaaacacc atccccatag agaattgttca tt 452

<210> 30603

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055c08d1

<400> 30603

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 atcaaagata ttttataatc gtacaaccta tgacaaagtt tagctaataa gatattaagg 180
 acaatctatg caatcaatgt ttgatctgat tgcgaggat tagcacgact tagacgcttc 240
 ttctgtatc tocatgcaac ctgaatacgg tttgctgcaa gggatctcca gtaaggatgat 300
 acatacctta gtgctccttg aacatgaggg ttccgcaaga atcttgatgaa aagaattgtc 360
 agttcctcaa ggtctgcagc tcgaagtga aatgcctcca cgtttgttaa gcatcttact 420
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 g 481

<210> 30604
 <211> 516
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055c11d1
 <400> 30604

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 atgatgcggc ggcacagggg aatcccatca ccaacgggaa gctggcaa atctgaccctt 180
 gaatcaagt caagagcttt gttgagctcc ataacaaaat cgcgataata cttaacataa 240
 tccatgagag gagcatcggg tggggccacc acggacccat tccatagggt gttatcgtag 300
 ccgatcaatc cccaagctt tacaagctca atcaccctct tgtggtagtt caagtaattg 360
 tccttatcag catccacata gatgaaatcg aaagctccct tattcttttc gtctttaatg 420
 agaacgtcaa gaagaggaag agcgggtcct tctctgaagt catcttgca gccactccag 480
 ccttttcac acgggcaacc tcaattcata atattc 516

<210> 30605
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055d02d1

<400> 30605

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 atatttttcac caatcacatg aaagagtcct tcaaattgca gagatgtcca ataactcaag 180
 tcacccacca catataacaa tataataaga acaccaataa aatgtgaagg aaactcggat 240
 catttcatga tgaaattgtg cataacttca tctcagggca tggaacttca acttcaaadc 300
 ttagatctta tcaagctttt cagccttgac aactggggtt gcttttagcta tagcatcttg 360
 agcggcagtg cggtaatcaa atgggcaatt atgcttgtct gagtagcgat gtacagcaca 420
 aaaaagggtca ccacatcgac aattaaaccc tgtcaaacca acttgcttgt tgcagctgct 480
 gcaacgtttt ggtccatcct tcggccttgc ctcaacact 519

<210> 30606

<211> 573

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400055d03d1

<400> 30606

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 caagaaattt actagcacia aagtggacaa ccagaaattt aagttgaaga aatgggagtc 180
 tgcataacaa tggcagataa aaaagaagtg acctctgcaa gctgaagaag acaagaaagc 240
 acacataaaa ttcaacttgcc aatccttcac ttaaaaaaaa gatggtagcg caggcccatg 300
 gcaaacaat gccaatataa cataaactat cactagtagg acgactataa gtgcaatcgt 360
 aagcttgaca tttctccacc aaacagtgtc tctgaagcga cgagcttggt tctgaagcg 420
 aaatgtgttt cettgcatat tagcagttnt atcgaccagc aattccaacc gatcacctct 480
 atctaaaact ttgtcaatat tttctatcat gacattccgt acctgagaca tttcaccttt 540
 gagacgattg atcctatcgg cgtaggagtc act 573

<210> 30607

<211> 552
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400055d04d1

 <400> 30607

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 aatggtcttc aactagataa tgaaaaatat aactaaaacc aacaaaaatg actatgaagt 120
 ctttttttta tcaaactttc taatattcta gaatttagca gatgatcacg cagccctaag 180
 actcttttca aaacctctaa cctagtaatt tgaaccatac aatggtgggg tcatgtgata 240
 ataaagggga taggcttcgt aaagaggaat agcgggggcc ttctccttct ctttttttgc 300
 tgggccaaat gaaattagtt cagtgggaca ccactttcgt agctttgaca ctgcactcac 360
 tggatcaatc tcaccaata agactagttt catgtcctta acgtcaacag aaatcgattc 420
 aaccctgaa aggccagatg ctggcttcac agcttttttc ttgattctat cattatttaa 480
 ggccaccttt aatactactt ttcttcattg atgataaaag attgtttgtg agagctaagc 540
 aagaattttt tt 552

<210> 30608
 <211> 465
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400055d05d1

 <400> 30608

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 aaagatacta attataagaa ttgaaagtg aaattataaa gttattaaat gattaatcaa 120
 tttttttcta cctgttcttg tagtaaaaag agttccatct gttcttgaat agcttccttc 180
 aaaaggactt ctgcttcccc agtgaatgtc ttggtagaag atatgatttc tttgaattga 240
 ggtttattcg tgtttaagta agcacgtaac tcaacaagaa atttccttac ctgtccaatt 300
 tctaataaat caagataacc attcgttcca gtataaatag ttattatctg ttcttcacag 360
 gtaagaggag ctgattggga ttgtttaagc aacttgcgca atcgttgacc ttttgctaatt 420
 tgattttgag tagctttatc gagaatcaga agccaatttg ggcaa 465

<210> 30609
 <211> 266
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055d08d1

<400> 30609

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 aagcctgaag aaaagggagg aaaaaacaag gggccacacc ggaaattggt tttgcgagcc 180
 ctttggaccc aaccggagcc agcgggggtg gaataccggg gggggttacg gtggaataaa 240
 ccgaatactg agccaagggc cccgtg 266

<210> 30610
 <211> 521
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055d12d1

<400> 30610

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 ctcccagaat gaatgttatc tactttttta gttttaagct caaacattga aatgaagaag 120
 agctctccaa tggtaaaacc caaagaaaac atcaaaataa taataatccc tcatgtcatc 180
 tctctacact ttaaaatgga acgaaactcc tctcagaagc ctgagaatgt ggctaccaat 240
 atggcaacaa acacggagat agctgaaatt gggaataatg ctgatgctgt gttcccttga 300
 gctggtgctg gtgctggaga tacctcattt acaggaccat tagtagaagc atctgctgct 360
 tgttggggag atggagaagc ttgtggagag aggccctccag caggagcagc agcaggcgctc 420
 tcagacaatc cacagttggt ggcataagga gcagatactt tgcaggcagc acggaaagtg 480
 gttgccttgg tgacattcaa aacgacgcc aattgagcgc t 521

<210> 30611
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055e02d1

<400> 30611

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tgatcatgat tcatgagagt tatacaaaga gaagaagcaa agatgaagat aattgactag  120
ttataccaac catccctgtc catttgtaca taggggttgt tgatgctgaa ttgtcttctg  180
gcttgggagg aggctttctg tattaaaatg gaaagtaggg taaaataggg tccggggggg  240
gggggctgcc aaaaccacca ctaccggtac cgctaccgtt gttggtggca acaccaccgc  300
cgccgtcgta agggggtgtg gggtaataag ggtaattccc agaagggggg ggatatagta  360
atcccggttg aggtggtgct ggtggaacac tggaaccacc tgaaggagtg gtgggagtaa  420
ccgttccaat ggtggtggg taacacggat ttaggcattg agggttgtcg gtttttgccg  480
gtgtccgaaa caaagg                                     496

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<210> 30612

<211> 363

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e03d1

<400> 30612

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aaaaaaaggg aaaaaaactg gctttaaaaa aaactttaag ggggggcctt tttcttaggg   60
ggggggcccc ctttaaaaaa tttttaaaaa aatggggggc cggccccccc caaaaaaaaa  120
aaaacccag ggggggaaa accccccct ttttaaaac ccacagggcg aaaaaaaaaa  180
cttcccttat caccctaatt aaaaaagccc gggcgcccc tttttttaa aaaaaaacc  240
ccctctttta aaaaaaaaaa gggggctcat ttttaagaa aaggggcggc ccccttgggg  300
gggggacccg gggagccctc tttttttttt ggggaggggg gatccgcca aaaactcccc  360
ccc                                               363

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<210> 30613

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e05d1

<400> 30613

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tagggattga acccctaata ttaagggaag taatgaccat tccacaccat gttggtaaag 120
cctaatagata tctcaatcat tcaacaaaaa taatgaagct taagcacccc ccaaaccag 180
aattccaaat tagttacata gaactttcca agatccaatg agccgacacg aattaactaa 240
acagactaaa agttttcaat tgtttggctt ctttctgctt caaaaacact ggcaattaaa 300
caagcttttt ggaaatacaa gacactccct tattctctgg ctgcatatac aacagctata 360
tatgtcacag tttcaagtca gctagcacia aagggtccta tatatataat aatcaccccc 420
tcctgtggta accaaaccct gctttcattc atgccctttg tacctattct taactgattc 480
aacctttgac ttaccta 497

<210> 30614

<211> 406

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e09d1

<400> 30614

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gagaccattc attttaacac aattccaaca gaacatttga cgatcaaaat tcaattgaat 120
cgccagatgg gataacaaac aaattgccca atttttaaaa aaaaaaactt ggggtgaatca 180
ggaaaactgt ctatatagct tccaaagctt gcaggacatt agccttcaaa tccttaaaat 240
cttcaactcc aaagctgaag ccaaccaggg tggcataaat tttgtacttg gccctttttg 300
actgaggaag accccagtaa gacaaaatag ccgggtgatc cacaatgctt tcacagccac 360
caaacgaggg cggaatatattt gggattttca aagaatcaat aaattt 406

<210> 30615

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055e10d1

<400> 30615

ctgggttaata ctgaatgttc agtagcggtt ttttttcttc tttcaaagtg gatatggaaa 60
 aaagcactcc tcataactga ggttccaaac ttgcaaaaaa taaaaaccct tactatttac 120
 atagctgctt gaacaaaatt tgctttgaaa ccattaaatt acctagtgcc atacattgat 180
 cttttgatca actaaaaaga gtggttcaaa tatatgtata tattaaaaag aaaaaaacgg 240
 tttcactcga ggcatatatt tacatgttcc cattctcctc tattgatgaa tcagaggcag 300
 agtcatctag tgttgaattt gatgtagtct ccaattgact cccactctca ttatctgaag 360
 ttcccactgt cttttcttca cgaggggtgt ttaggcacca agacattata ctagccgtta 420
 gtgcaaggat cattttttga ttcacctcag tgatgtcttc ccgaagcagg aatatagaac 480
 atacaagctt tcttgcaata ct 502

<210> 30616
 <211> 366
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055e11d1

<400> 30616

atccaaatga aacattgtat catttgataa gtgaaatgca caacatgcaa acattaacaa 60
 aattgttcag gccatcctta atgatcaaatt acttcaattg tttccatata ttatattcca 120
 aaatatattg aaattatgca agacaacgaa aacatgaaaa tgcaaaatat atggcaaagt 180
 actataatct attcacaaat taacaatgag tgaccactcc agactcggtt cactttcatt 240
 tgaaggccaa agtaattgaa gtatcttgac tacttgttgc cttctttatt aaaaattctt 300
 tgtaggaatc aagaatggaa cgccaagaa ttttaatcaa gcaagggaag gttcaatttg 360
 tggcaa 366

<210> 30617
 <211> 568
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055f02d1

<400> 30617

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ggagttgaca aatttattcc tgaaaacaaa agagactatt ttctctaact acaaaatcca 120
 tcctcatcaa atatcaattg ggtaccctta aattgacgga taaaattcaa gtaggactta 180
 gtcacggaac tcatccatga atttttcatg gaactcagtc aagcgggtga cgatggccgg 240
 aatcttttct tctggaggca atatggtgca cctaaaatgc catgtgccag gaacctgtcc 300
 aaaaccagaa ccaggaacaa caacgactcc tgtggcatta agcaagcgtt tgcaatagaa 360
 gttatcaggt gttgcatttg cagcctctgc agctttgata gccttttcgg acaggcgaat 420
 ttgggggaac aggtacattg ccccttctgc tttgttgcac gttacacct ctaatttggt 480
 gaatgcatct tctagtgtct ttgcacgctt ggcaaggac gccaaaatat tctccttctt 540
 agccatgaat gagtcatagg actcatct 568

<210> 30618
 <211> 587
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400055f04d1

<400> 30618
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 actaaagaga cccgcgattc cataaaaagc catcgtggcc ccttgtggaa taaatggaaa 120
 ataaataaag tccggaataa aagaaaaatc actaattttc tcagaaataa agaacaaatc 180
 cataccaaga taactggaaa ttgcaacgaa caataacccc aatgaacctt acaaagttaa 240
 aacggcccaa aataaattgc ttgttcttcg aacctccgcc atagaatata tcagtacatc 300
 gtctgagcga aagattatac tcattactct ctttttttg aatttagtat tataattggg 360
 gaataaaaaa cccagaatt ttactttgtt ttctgtatct aaaaaatctt gtttttttga 420
 acataaagaa ataaagaagc cattgcaatt gccggaaata ctaggcctac tagaggaaca 480
 aaaatggaag gaaagtttat cataaatgg gtacctgat ttactatttg gaccctatat 540
 atattatttt tataattata tagacgcttt nnnttttttt attttttt 587

<210> 30619
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055f06d1

<400> 30619

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aaaaacaatg tgacaacaat cctggccact ctttcttggg ttgcttgatt tcataaacat  120
atactctaac taaatttcca aattccagga atggaaaagg aaattaagaa tcaacgttca  180
cttcagactc accatgaaaa tactataaat gaaggtgttg ttgaccttaa gcagcggctg  240
taatgaactg tattgcctct ttgcatatac cagtcattgt ggcttcgggt ccataaacct  300
caatggggat gccaatctcc tctccaagtg ctgcaccaa agctagaccc ttctggttgt  360
tgggaccccc tcttctcaca aagatgtgca tccttgctgc tttcaatttc gac       413

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<210> 30620

<211> 384

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055f09d1

<400> 30620

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tcacgtgaat gaagtgatgc gtttctccac tttcttgctg gacagcaaact actgtctaca  120
agaataccaa aatttacata caagaaagag ggactcacgc gtcccccccc ccaccaccc  180
acacagacac tgcacttttt gttttttgac ggaaaattta acacaatcta ttctttaact  240
tgtaaactct gaaaagtaat aaaatcagac tgtaacacaa tcaaggcatt cccttgttgg  300
cgtaggagtt gaccagcgcc aaggcattgc tgggtgaactt tttgacgttg ctgaccccat  360
cgcatacacc cgttttcatg ggac                                     384

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<210> 30621

<211> 531

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055f10d1

<400> 30621

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caaaacaaag gctgcacaaa gtagccatat cattgttgtg ttgtcacttc cttgtactgg   60

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 accattcctt ccactaaaaa acaatggcca ctttttttca tgatcaaaat tacaatgccc 180
 taatgtgaca actctttatg aagtaatctg aaaagtcaat gtacttggcc cacaatggct 240
 ttagatgggg aaaagctata tctagccatg gctttgccc gccatcgaaa tggatgacac 300
 cagcagtctc agcatcagca aaacttgat tttcctgata tcccaatccc aacatgtgcc 360
 agaaaggatc aatagtgtgg acatgaccat ggaatgctat taatccaggg ggcaaagttc 420
 ctagctgcca caaactgaag tctgatttta tattctgctc aaccatga tggctctgttc 480
 agctcatatc ggtcttcctc caagcatcaa ggtcaaaaat gttcatgcca t 531

<210> 30622
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055f12d1
 <400> 30622

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 aggatgcaaa agcttttagg taacaagacc ctattttcta aggctgctct taacagagga 120
 cgctacaaac tagaataaag ctacagaaat gttaacttag gaaccatatc tggcccaatt 180
 attatacttg tcaccctcta aacacagtaa catgatggaa ctatgctgaa actggaatca 240
 cttgtagcta tgagaacaag aactacatgg ctagcttttc tagtaagggtt cttatcaaaa 300
 cccaacgaaa taacaatgaa ataaagagtg atctatgtag cccgcaacaa aaatgcataa 360
 tctttgattt ctaaaacatg aaaccgctca atacttttaa gcagttttct tgtttggtc 420
 aaagacatac ttgatcagtg attccttgaa ggaaagaagc tcatggaact cgtttttcag 480
 tttggatgca tccatctcat tgttgctccg tggagcaatt attaccttgg cttgctcttc 540
 aagattga 548

<210> 30623
 <211> 520
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055g02d1

<400> 30623

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 atatggacaa gataaaatat ttttttgtgg ggtaatgtgg ttccctccaa ataggaaaaa 180
 tatggagaaa gaaatctagg gaaatgtttt aacaagcata tcgatactga gagttctgaa 240
 taatgacatg actgagttca tctttgaagc aactgaact ctgtggcaaa gtacatggca 300
 atctatcaat aatatcatag tgccttaatt gagttcataa ttaaatacat gctgatcatc 360
 attataagca aatgacattg accttactag aaagaggtaa agcattcatt ctcgatgaa 420
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<210> 30624

<211> 367

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055g05d1

<400> 30624

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 cccccacacg aaaaaaaaca gaaaaaaaag aacgacccta aaaagaaaac caaacagaa 120
 agttaaagga agggaggcct tgttacccaa ggaagggggc cccgcgcaaa aaaaaaaaag 180
 gggcccaaaa ccaaacgcc ccaccgacac gggggcacac ccaacagagg gggaaaacat 240
 acgggcgggg ggtgggcccc accattatcc caccctccc cgggaggcca cccccaaggg 300
 gggccaaaaa caacgcccgg aaaacaacaa aggctcctgg gtggggaaga aaatgggggc 360
 agcaaaa 367

<210> 30625

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400055g06d1

<400> 30625

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gatgggatgt ataacaacct ttccagttgc tcggtttggt tcaaggtaag agaaggcttc 180
agcaagctta tcaaagggga atggacctt ggggtcaaca attggcttca ccttcccact 240
ttctaagtaa gggtttagtt tctcagaac ttctccattg gaagtaacta caaatctgaa 300
gccaggtggt gtaacagcac ctgtgagtgc caccacactg ccattcttct tcacagcctt 360
cactggcctg tcacattgcc caatggcatc ataaactaca tcaaattttt cgggcaaadc 420
ttcaagttct cttttgtgag tcaatggcca aatcagctcc caagcttttc agt 473

<210> 30626
<211> 558
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400055g10d1
<400> 30626

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cctcagtaca ataaaaattt cacaagacat gatagtaact actatatctt ggattgctcc 180
agggaggaag tgggtctattg aatatagtta ttacattat tattattctt ggattctcca 240
cggaattaca caatacaaca tctcaccacc aaccctttt gatcaaccct ggattcttca 300
ttgccttcag gaggctgagt tagcttcta ttttggggag acatcatttc tctcttcaat 360
tgaatcaaaa tgtcttccat tgtacgtca cgtttccaat tagcaagcat aggaaacaaa 420
tgtgggtcaa ccaactccagt ttcttgattg acacatgtca tgttaatcct tgtttgaaat 480
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cgccctttat gaacagta 558

<210> 30627
<211> 406
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400055g11d1

<400> 30627
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 aattttcaat cgttgacttt agtttatgat aggaggtgca aaaagtcattg ctatcttacc 180
 acaatttgta aaggaagaag ccccatcttc aaaacccaac caccaattga ccacatacac 240
 cctatttaca tttccatgtc ctaacagggt taaactgtaa aactttcctt cgacaccacc 300
 accgtcatca ccacgttgac tatatacatt acaaacttac agaactccat taacgtaaat 360
 gctctaccca gcattataat cacctgttcc aattaaaata aaccca 406

<210> 30628
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055g12d1

<400> 30628
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 atcatgcaaa aaatgatgca aaaatattgg gatctcagag gttaacagct ctgctccact 180
 gggttcaggga gtaaagatac ctttgccatc aaaatcaaag gaatactgtc gaaactgaaa 240
 tgccaaaaat cagttaaaga gcttgatgag aagctatcta cctttcatgt acttgctcaa 300
 agcaaaattt agctacggca atttatgtaa cccgagagag ataaaactct gcagtcttaa 360
 tgcttaaatt tttactttta caggatgaag aagcgaagaa accatgaatc agaagagttc 420
 tttcgcata atgcacttta atctattctt ccacaatcta ttaagttgtc acaattccca 480
 cttgtttgtg gaaagttcaa gcttgggca 509

<210> 30629
 <211> 436
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400055h04d1

<400> 30629

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 atcattatcg tcgtcaggaa ggggctgact agcagctgca agaagctcaa cctcgtgctg 180
 gtgggtgggca gctaaatcaa tttgaacttt tggggggggcc aatgcaggag attctacaaa 240
 gggcaagttt gcatcgcttg caagtttcct ggccaagtac aaaaatgggt tttcaaaatt 300
 ggagttgctt ttagcagata tctcatagta ctggaaattc ttcttcctgt ggaaaggaac 360
 ctgctttgcc ttcacttgcc tatttttgac aataaccttg ttaccgcaa gaacaattgg 420
 gatgttttca caaacc 436

<210> 30630
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055h06d1
 <400> 30630

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 aatttcagat ccatcaattt tattactttg ttttgctttc tcacactcat tcaagaatgt 180
 tccaaatgca ttttcacagt atttcaactgc ctccgaaaca gttaagttct cagttagctt 240
 ggggtatata ctcttattat gatccccatt tagagttgct gccatatata tcaaattctc 300
 ttgaaattca ctcaattgcy tttgttggtc cgcggaagca gcctttcgca gtttgacggg 360
 gtcaggcaat ttcactggac aatcagtagc tggggtgctt aaagataaga gat 413

<210> 30631
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400055h09d1
 <400> 30631

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ctgaaactcg ctgcgcttaa caaaaatgta atcaggggtt tcccatcata cactatctca 120
 ttaaaacaca gataaataaa agcaatcttg ccaactcgctg atcaagaacc cagttctggg 180
 aacaacagtt gcgagatgat ggtggagact tcaaactttg tccgaaaaac aagctaccta 240
 gaaaagaaga cacaagagta cagaaaagaa accaacattt attgtaacca acatcccctg 300
 atgaaccagc ccgcacgatt cacttcttct tctgggcagc cttggtgacc ttggcttcgg 360
 taggatcctt cttcttaacg ctcttgatga ctcccacagc aacagtttga cgcattgtccc 420
 taacagc 427

<210> 30634
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056a06d1
 <400> 30634

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 caaagatatt gccttgatgg aggcattgaa aaccaatacc tgtctacttt ttagtaaag 120
 agaaaaatga agactccaaa cccagttttt ttatcctggg gagaatagcc aatacaatga 180
 tgaatcaact gtgccacgtt atatcccaga tcttacataa tcttcacctg aattacagaa 240
 atgcatgatt tcgatcacc aaataaaaact ttctaactg ggagtttgtt gtaaattcta 300
 ttattaaccg gatgatgaaa ccaaaacatt atgtctcttt aaacgttact gaaaatgatc 360
 taaactggtt tgcaactg 378

<210> 30635
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056a07d1
 <400> 30635

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 cacacaccac tcaattgaca tatatggaac acatacataa tccatatagc attacttagg 120
 ggtggggcat ttcttacttt tatttaaatgc acaaacataa caagggcagg aaggaaaacc 180

acaaaattaa aacgaagatc atatatgctgt taataataac aacaacacat gcaacataaa 240
aaccacatgc agttgtggta ggggcatctt cttcagattg gaaaccctc aatgatggaa 300
gggagagcgt tgatcttgat gatgttgtaa cgcgcgaaac cggttttctt gaacagccac 360
ttccaggtct cttcggtcct ctctttgcc a cggcggttg gagcgagaag catcatgtcg 420
aatgcgatgc caacgtttgt gaagagtctg gtgccttcgg gtcggagaac gtgatccacg 480
attgtgactt ttgct 495

<210> 30636
<211> 575
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056a11d1

<400> 30636

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cagagtcggt tttccacgag acgagaagag acacgcaact cgataagtat cacaaaagat 180
tacagaagaa aaggaacatt ctcttctcaa ctatattcta tttgttgctg ttgctgaggt 240
ggttggtaac caggataccc cggataactg ccatacatgt tgggatcctg tccagcagca 300
ggagcatacc cataattttc ataaccttgt gcagcatacc catagtatcc accaccagaa 360
ccagcaccac cattccactg gtttggatct gcctgagcct gtttgtttga aggactgcgg 420
cccatgaaa gacgaacatt ttgaccaccc aacagggtcc cattcaacac ccgaagtgcc 480
tcttcggcac agtcctgtc tgcgaattgg acaaaccac atcgcttgcc tgctggaatc 540
ttcacatgca ctaattctcc atactggctg aaac 575

<210> 30637
<211> 543
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056b03d1

<400> 30637

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 ataaaagtaa cataaaatca tgtctcotta gaaagggat tctttgcagc ctcagcagcc 180
 gttttctttg catcaatctc agacacaatg gcatcaattt ttagcttcag tgagtacagc 240
 caatacctag caagaacaat gctcgcataa cacaaaacag aaaattatgt ctccttagga 300
 ggggctttct tagcagcctc tgcagctgcc ttctccgctt cgatctcagc aacgatggca 360
 tcaatttcgg cttctccag ttgacgcaga ccctgctcct tagtcatcac cggaacttct 420
 atgggtcttc ctcactctc aacaacttca agcaatgcgc gaatagccaa cttgacagtc 480
 tcctggccag aagtgtcctt atagttctt 509

<210> 30640
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b05d1
 <400> 30640

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 acacaaatct ttcactatac agttaaagc acaccactcg gaatcatgtc attcgtaaca 180
 ctttattcaa atgtatgctg atatagatgc ataccgtata tcctattata aaaagcaaca 240
 ccactcgact atatagtagt taggtgacac attttcctc aaaaacttgg aactgaggaa 300
 cgtgatgctc agaactccct ttctggaaac atgataggag ctacgagaga ccacaagtac 360
 agcagagcag ttgcccagga agtgatgatt cgaaccaca cagaaggcca cccacgtta 420
 accaacttcc cgctctctcc aacagatgtt gaccaaccag tcagaagcat tgcagaatac 480
 atgcttgcaa gagagaaaat caagtggaag aaggcctatg aatat 525

<210> 30641
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b06d1
 <400> 30641

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 attcttaatc tgaccctgtg taaagcaaaa aacttgatag cataatatcc aactaaagaa 180
 acaatacatg gcacaacaaa aatagaaaaa aagaagtagg atcaaaagaa gcttgatata 240
 attactctat ctgaattatc actcagcagc agtaacctca atgttattgg tttctgcatt 300
 ggattgtggg agagttccca aatccacgcg agattcttta tctcctgag tgattgaatg 360
 atcagaactt ccttgatcat tcaagttaga attgctatct tcgccggagt gtgcaaattc 420
 ctctctctttt tgtgactcca ctgtttcggt ttgagcacca acctattttt caactgtctt 480
 actctcaaca gtggc 495

<210> 30642
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b07a1
 <400> 30642

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 atgggtcaac cgggacaaca tggacaatga ccttctgtaa tgcgttcagt tgcacaccat 180
 aaggtctaac cgcccgattc caatgatgcc aactcttata ctacctaggt cgcaacgcca 240
 ttcttatgga cctgggtcaac ctatgccaca tgttttgatg cccggagttg ctggacgtat 300
 attatctggt ccatatgatg tgggtgggat gccactgctc aaagcatgaa tttcccagca 360
 aattcctgat gaggttttat caacagctat gacaaatgct tctccagagc agaacaggac 420
 catgctaact gagaaactct acgagcttgt ggaac 455

<210> 30643
 <211> 546
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056b08d1
 <400> 30643

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 tcagttacga gacagtctac aatgggtatgt gcacccctac attcaacaac aatatgcaac 180
 cctttattaa tacattgctt agttgtgtta ttgatcccaa gctgcttaat gagtcagggg 240
 ctttgaaatg tctctaataa aagcatcaag gttcccatat gaggagcccc ctgcggcaat 300
 cgctctgaga cacataacct tgatttctct tgccctgtct ctgatctcct ttccctcttg 360
 gctttgaaga tccataaacc tctaaactag agcttctatc ttttgtgtgg ccacaataac 420
 tgcactgtcc aactgtgatg tctctacct agaccattc ttccactcat ccacaatttg 480
 gctgctattt ggaacttgat ccaagataag agggaatgtc agcattggga cccaaccaa 540
 gagagc 546

<210> 30644
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056b09d1

<400> 30644

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 ataaatgaaa caaattatag atatgataag ggcaaagctc aaaaaactcc cagcacacag 180
 cggtgaggaa tgaatggcct taggcctcct cccacttgag tggcttgatc acttcccatg 240
 tgaagtcagg gtcctctctt ccaaagtgtc catatgcagc agtcttcaaa aacctgttat 300
 ttccaccctt cttgagatca aggttgatgg agatcatacc aggcctgaaa tcaaagttct 360
 cttcacaat gttaaggatc tccttgatcag ggatctttcc agtgccatag gtgtcaacaa 420
 acacagacaa aggctcaggc acaccaatgg cataagacac ttgcacaatg caccttctgg 480
 caagtccact tgccacaatg ctcttagcag cctgtctcac aatgtaagca ccac 534

<210> 30645
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056b10a1

<400> 30645

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gtcttcgggg tttcatcggg cctagggcatg tggataatct ggtacgatta acaacaacgc 180
cgtcacgtaa gtcgttgacg aggtgctgat gagcatgtac gatcggcggg tagtattgct 240
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ctgcgattca tgcacggcca caactaccat taggaccgca cctacatgct aggactgaac 360
cgggtatcgg atctcaccaa cgaggagtgc agggccatgt gctggggaac caagatcgat 420
cccaggctga ggctcggcta gatcgcgagc aatcgacacg cgccacgtgt cggcgacata 480
ctacct 486
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<210> 30646

<211> 374

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400056b12d1

<400> 30646

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agagcccttt gggttggcag cccacttag ggtataaagt tccacatccc ccttgcgagg 180
ctcgtttttg aaaattaaga ccgatggaaa tgtcaaagcc cttggacctg gcccaaagt 240
caacactcat gggcagggtt cccctcaaga ggggtttact acaaaattcc ttgatcccta 300
caagttaacc cttaaaatta atgaggggaa aagtctgata aaatcgccac aaaccaggcc 360
ccaaaaacag gggg 374
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<210> 30647

<211> 408

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400056c03d1

<400> 30647
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 tcggaacctt caagaaaccc caaaatgggg ccccggtga tccggtttcc caccaccttc 180
 gttacgtcga cccgtaaacg acgccgtttt gatctgatgg cgaaaacccg agcaacatga 240
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 gcagcatcag cggcagaacc accattgacg ccgcgagcgc cgccagaacc agaacggaac 360
 ctaaaccaaa acaacgtgcc atgtcgatat ccatgttgtg gccctac 408

<210> 30648
 <211> 535
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056c04d1

<400> 30648
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 aatgcagctg ccatatggat caactccaca tggttgccac tgtgacaaa gctatcccaa 180
 tcgacatcaa cattgctcca ccaaggctaa ccaaactcac tggccggaat taatgggaat 240
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 ttgcaagagt tggtggagcc aaagctggag ccttattggt tagaaagaaa tctagaggaa 360
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 tgggtggcatt gactacccca gtagaaatgt tgacactggt acctaataca ttcacattca 480
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<210> 30649
 <211> 472
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056c05d1

<400> 30649

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 tcctgagatt gcagatgatg atgactttga gtagcggttca agcaatgata gtaccttggc 180
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 ccttattgca ttatattcat gcaagacacg agctcccctt tgaggaaaat ctttcaaaac 420
 caatgtggag agtggttga ttgctttaca agccgttgca tgaaccttcc ca 472

<210> 30650
 <211> 82
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056c06d1
 <400> 30650

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 aacttgctat ttataaagca aa 82

<210> 30651
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056c09d1
 <400> 30651

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 ccaaaaaacc aattacaaaa tggataaacg tgctattttg aggcctaatt caccctcacc 120
 acattgaatg cccctttttt ttcaaaaaa ttcaccccca gttttatagg aggcataattt 180
 tataataaaa gccttgggaat tggaaaggcc tcataaaaca gcaaaaacca cagggtcccc 240
 cgggggaaag ggtataacag caaaaaaagc aaatcggggg ccaggggggg caagaacaaa 300
 agcaaacggg gtttaccttt cgacaagagg ggcaagaaga acagggggga catcccaaac 360
 tgcaaaaaag ggggaaaaaa ggaaaatttg gaaacccea 399

<210> 30652
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400056c10a1

<400> 30652

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 ttaatgcgga agagtacata aaactggtga ggaagcatgg ggttggagat ttcacagcct 180
 ggcttagagc ctaataaagg gttgacatgg caaatgacaa aaagaagagg tgatcaggaa 240
 gttcacaaag tgacagagga aaaaccagga tgggtgttctg accctcattt gcctccttgt 300
 gcagcgtttg ttgagattat ggctccagtg ttctcaagag atgcatgngc gctgtgtgtg 360
 gcatatgatt cagaatgact tggtcacggg tgggggtcttg attttgctct taaagatgtg 420
 ttgaggtgag tccattctac acctttgtca agtaaaatcc aatttggctg acccagtgc 480
 ct 482

<210> 30653
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400056c10d1

<400> 30653

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 tgcattgcat gtacgtaacg ttacatagga atatatattt ttcttcaagg gaaaattcta 180
 cgcgtaaggg tagtaatgat atctgtgtac aagtcaactt tggccttagt cacccta atg 240
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 caaccgactc tggaacatgg tccactcctt tctacaccgc tccctcacct agcaca aaca 360
 acattttaac atcaacaaat ttctttatca aaatacataa catttagact acttccatta 420

taacacacac aacctcttca ttagactttt aatgtgagat aaaaagaagc caaataccat 480
 atcaaacgat cttgagaaaa gtaatcaaac aaattcagct gnaaaatatt gaacatgtaa 540
 aacatagtaa cataccccct 560

<210> 30654
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056c11d1
 <400> 30654

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 tcctggctct caaccttact tcctttttatc ctatgatttt gcatcaaaac tatggcactt 180
 ccttctctct ccttttgatt ttgcatcaaa atgatgagac ttgagcttct ttttccgaat 240
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 tgcttcttgg tcggttttag ctggtgttgc gatgcagata tccattcccc gaggcttacc 360
 aacaacatca gctctgatct ttgggaagac accctgggtcc ttaatgccaa tgctgtagtt 420
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<210> 30655
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 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056d02d1
 <400> 30655

gattgcattg cacctcctta acttgtcctt tttctgtttc ttggtatgta cataaaaaga 60
 actatagact gaaaaacagc accaagtgc tggcaagtgc ctttcatgtt ccattaagaa 120
 aacaaaaaca ctaaagataa agaaaaaagg tacaagaaca caagcgttgc ttctctactt 180
 aaaagaaaga aattgataga aaaaatttct gtaagagtat gtggtggcag cagcagcagc 240
 aactgatcac agaaactgaa agatgggtgta cgtgatgtga gaggataaat aagattatta 300
 gctctcaaca atctttggac cgttgtacat ttttccattt acttctaggt cttcaagttc 360

atccctctct tgtagccatt cataagcatt cttttcctct tctggtatgg ataatccatc 420
 cactgaaaag ttggaaaagg ggaaatcgtg gtagtatgtg cagtgtctgc cttcagcatc 480
 agaatatgga ggaccaagca caattagaac tgcgcatgct gtcactgctg tgaaacagtg 540
 caaggttgcc cccatcttct ggataaagga tgaaggggtt cc 582

<210> 30656
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d05d1

<400> 30656

gagcattaag caaatgaaga tttataataa ctaccaactt ctttctatgt tgctcctagg 60
 catcactaga aaactagtagc attaatgtgg atattagata tccctcctaa aatcagtgat 120
 ttcagaggag ttttaagtctt ctactcttgt tcataaaagt gcacatataa gagggatattt 180
 tcactattca aatagaaaca aaatatgatc atgattcact tctattcaag gataaatata 240
 cccttagtgc accttacacc taaaacaatt ttccttgcca atgagtgggt taggagttgg 300
 tcattcctca agcaggaacc caagaggaaa cagcaaaaag aattcgccct ttccatcctt 360
 gcaaaaccca cttgccattc tcattaacca caaaatcttt atgatgttcc ttcttcacca 420
 ttttctttac tctattcaca tgctctgggg ccaatggaag ttgcttgaac cctgctctct 480
 ggttectaac ttgccact 498

<210> 30657
 <211> 320
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d09d1

<400> 30657

attgtatatt taggattggg agttaactaa ttttttgttg ttcgacacca caacacagac 60
 aaaaaaacat ggaaaaagaa aacacagaaa atccaacacg aaccagggaa gaacaaaaaa 120
 aagccccgaa gggggcccca aaagccccaa caacggggcg gggtagaaaa aacgaaccga 180
 cgaaaaagga aggacctaaa ccccgaacg ccggagaagg gaaaccccca atacaaggaa 240

cgcgggcaaac aaaaaaaagg gggaaaaagg ccagaaaaaa aaggggaacc caccggaaaa 300
 gggaaaggga ggacccccgg 320

<210> 30658
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d10d1

<400> 30658

acaaaaaag acaaaagcca aaaatTTTTT aaaaagggtt ttttggcccc aaaacaaaat 60
 catttttcaa tcaaattaaa taaataaccc ccttggtcat cattttttgg ggtccctagg 120
 gatttacata agccagcatc aggaactttt tttatcgac cccttaccat acaaataaaa 180
 aaaatccctt aaaaggaagg aattgcatc ggaagttaat cccccccat gcccgtaaa 240
 ttagaaccac cctttgatca ataaaatttg aaaaaaaaaa aatgggaagc cccaacttga 300
 gcaaacccca agcaaaagaa gatttaagag gatttgggtt acttatagga taagcttagg 360
 gggccattg gaaatcacgg ggggctttcc ttgagcaaac attgaaaaac aagctgagtg 420
 aaatcggaag g 431

<210> 30659
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d11d1

<400> 30659

aaagccattc ctgacactag gttggtattg gctttttctt taattattta ttatgtttga 60
 acatgacaaa aaaaaatcta aatgacaaaa catcaatact tttattactg tcaactgagg 120
 cattcagagt gacatgggag caccgaacaa gtggtaacta attgcccact tggataacag 180
 tagagacaaa tcacacacaa cagattaatc atcaacaaaa tacatccgtt ggtgaagtgt 240
 ctgacagctg aagagaaact gctttccaat ccacagcatg accacactgc ttgtcttttg 300
 tagtagccac tggtcacagg agaggacca caccagaggt ttcagttata gacacctttt 360
 ttgcagcaac tgccttcaga ctgtacctct cagatcttga accaaatact tgccccaaca 420

ccgatgccgt gatagtaa at gccattgctg atttagggat caagacagac ttccttagca 480
 ttgctatgaa tggaacagct gcatggact 509

<210> 30660
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056d12d1

<400> 30660

gcgaaaaaaaa aaatTTTTTT ttttttaaaa gaccctaaaa caatTTTccc ccaatgggggt 60
 ttccatgggg ttttaagcct ccgggggttcc cccgggggtta aaaaatcacc aaacttccgc 120
 tgctccttgg ggctaaatgc ccccaaggac cgttggggttt tttggagggg ggggccaac 180
 tttttttgga cgttgaggcc ctttttgcgc aggccaaagg ctcgattaaa attttttcaa 240
 aatggggtttt ttttttgggg gaattctttt aaaggggggg ggaattttct aacctttccc 300
 aaacatgagg cgggtttgga aatttggggg gtttaagatc attttgcct ttccaaaagc 360
 cattaattga actaattggg gggaaaccag gggggggggg gtttttcctt aaggttttgc 420
 ccaagccctt ttt 433

<210> 30661
 <211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056e01d1

<400> 30661

ggaaacaact cacactgtcg tttgcctttt ttatatctgt aaatacttaa taatacatta 60
 caattgtcct cgttaaatga ggtcgacaaa acacccaaaa attaaccaaa tttggagcac 120
 aatgttttgt tcttacacac tatatattgg gccacacaaa atgagatttt aagactatat 180
 cttatgcttc ttcctttcca tcaactccaa ctttcacatc atttgcactc acaagctctt 240
 tttctgcac gtcattaggc tttatgttgt gctgaacttt gtactgatgc ctcatgtcta 300
 atacaagaaa aagtatgaaa ttcagtagtc ctagcactgc gagcaaccaa tagaagtaat 360
 ctaacctgcc cttgttcaga ttgctcctta gccatctttt cttacttgct ttgtccacaa 420

ttgccaccaa taagctactg acaaaataac ccattgatag tgtacatagg aaaagtccag 480
 tgctcataga ttccattctc tctggggcct tcctaaagaa taattctagt tgtccatcat 540
 aagccaatgc tttccc 556

<210> 30662
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056e02d1

<400> 30662

aaaggaaaga atttcaattc aatcgtctta caaacagcaa aatttgtagt gacatgctgc 60
 agtcttttgc taaacaaaac aacaaatata gcaatctgat agctgtagat gccaaatttc 120
 aggcccccca actttctcag tatcataatc gtaacaataa ctataatgac gaaaattttg 180
 aaaacggggc agacccatct cacttattat tctactttaa catgtcacca aaggagcgaa 240
 aaacaagtta attctttttg ccaactccaa gcctcagacg gaaatcctct tccatacgag 300
 gaagaccatc acgcaacttg acctttggct cccagcccaa caattccttt gcttttgtga 360
 tgtctggttt tctttgtcgt gggtcatcag gagtgttctc caccatcttg atctccacac 420
 ctggattaat aagctcttta actgtctcag caagttcagt cattgtaaatt tcacctgggt 480
 ttccaagggt gatt 494

<210> 30663
 <211> 328
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056e03d1

<400> 30663

gaacccaaaa aatttacatt ggtcttcaaa caccgctttt tttattcct ctatacaaac 60
 tccttgattt gactttgtta cacaaattcc ctctatgggg gggattcccc cactttgaac 120
 agttctattt ttcccaacct aataatccta aaaagggat ggtctttacc cccacattt 180
 acttccaaag attgggaaac ataattcacc agtccaacaa acccattgtg ccttaagcga 240
 acacccctt gggggcccaa gtaaaacttg ttccttacta aaagtttggg cacaaatatt 300

cggtaaaaac aaatccctat tttggggg

328

<210> 30664
<211> 460
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056e04d1

<400> 30664

aatccaaaac aaaaatgaaa cttttgtttc taatttcaag gtcttgccca acatccttga 60
gctagatgga agctgttgaa atattatatt atcaagtcac ttttcacata gaaattcatg 120
gtgaaaatgt tcttttagca actttgatta caccgagaca aatcaatgcc acatagtggg 180
gggaaataaa caaatacaga aggaaagact taacactaca gtacttatta ttagcctgta 240
agagcagagt tcagagcact atggacatca accccaatct gagcttcagc tttctccaaa 300
tcagttgtgg ctgagttcag cttctgggtg aaatcttgaa gacccttctg gactagattc 360
gcatcaattc ggtccaccgg cacagcetta acagctatta tattagcaac agagtttgca 420
tggatgaatg caaagccact gctgacaaag tacttgggtca 460

<210> 30665
<211> 354
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056e05d1

<400> 30665

agggtacgga ccaaagggct aactttcttt atgttaaatt aaaggttgaa atattccaat 60
aaccttgagg gttttcttca cccgcatgtc tttttttgcc cagtggcatt aaaaccccag 120
atacccaaaa aaaagaacag actttcgccc aaagcccaac ttaactaaca aaaattggta 180
ttttgggcca aatggagggc cctgtcggaa agaaccctgt ttgttcaaag ctttgaagtt 240
ggcaaaccga ggggttttgt cttaacaagg catggggaga ccctcggggg tcgaacattc 300
tcaatgagga agggtttaac cctattggta gtaaaccaaa aaggggaccc cttg 354

<210> 30666
<211> 486

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056e10a1

<400> 30666

aaaaagcaag gacgcaatct atgtccctga cgctgagcac gaggctctcc aattcaaagc 60
 ctgggtacac agtctattgc agcctcgteg ctacgcata gctgcggcac aacctctacg 120
 ccggcactct ccgtcgtecg tccactttta ccttggccct catcagtatc gcgacgggtc 180
 cgcggtccgt cactcagtct cgcggaatta ctctgttcgg atgtgatatg agagcctgga 240
 ctctcactgg taacgggtgt cgcgctcaca aggttatcaa agtgcattgac cctatggaag 300
 gaacggggct cgccgctctt gaggggtccga cgcacagtgt agctgggttat gccacagttg 360
 ctactacagc tgatgacgcc caaagggttg atcgaaacag gcgatagagt taagcatcga 420
 atgctgatag agaacggctc ctacgagcta ctgcagcagc ctgttgattg taatatacgc 480
 cgacac 486

<210> 30667
 <211> 543
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056f02d1

<400> 30667

gacgataaca taaacttttg aatagaattt tattacagac aaaatcgttc tccaatgcat 60
 gaattataca attcaaaaca aaattcgacc acttgtgtgt agaccttgcc tcagtgtaaa 120
 taaatggctt acaaaattcg actatgcaat taacattcct gaagctcagt tctcaaatac 180
 acttagcaaa ggaaagttga aaagataagc agaaaacagg aaaaaatttc aattcaatca 240
 tcttacaac agcaaaattt gtagtgaaat gctgcagtct tttgccaaac aaaacaagat 300
 atatagcaat gtgatagctg tagacgcaa atttcaggtc cccaacttt ctcagtatca 360
 taatcataat aataactata atgatgaaa ttctgaaaat gggccagact catctcactt 420
 attatttctc tactttgaca tgttaccaa agagcgaaa ccaattaatt ctttttgcca 480
 acttcaagcc taagacgaaa atccttttcc atacgaggaa ggaccatttc gcaactggac 540
 ctt 543

<210> 30668
 <211> 443
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056f03d1

<400> 30668

atcaccttca acagaattac caatttacta gtctgaggtg ttgtgcaata ctggcattaa 60
 agaagctgcc ttttgttttc ttacatggga ttgaggagtt acctcgttca aagaacaatg 120
 gttggcagta ggtatactac agacgcagcc tagacatttg taattttctg cattttcacg 180
 ctttacgcgg atgactctag caaaatacgt gatttacaat ccacctagta caacaagcta 240
 acattctgac tcatcataac aagcacttga tatacacga agaaagaaac aagctccctt 300
 attattaaat taaaaagctg acaaattggg gggtcactg atgaattaga tccattcctc 360
 gtggttgacg catgcgtcca caagtttcca ttcttcgctt cttttttccg ggttatgaac 420
 cgtttttcca accgagcagt tca 443

<210> 30669
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056f05d1

<400> 30669

acttcgataa ctttatatta ttttacatgc atgcatagca tagatagcct gctctcaaata 60
 tagtcagcag gaacaaagat agagagatcc aacgatcttt aaatttcaca tttgccataa 120
 atatataaca gaaaagaggg tatgggatat gagttaagtt ttgatctcat tcaactacag 180
 tateccaaac cattactctt aagactttga acttcacttg tactccagga tcatgatgtt 240
 ctcaggagct aatccaacac aagcccttag gatgttatcc agcatagctc gctgctttga 300
 cagtgcatta accactggcg tactcggtgg aaccagaggg gccttgggtca ggctactgaa 360
 gatggttgcc actggtgtga atgagtggga ctttcctca tttt 404

<210> 30670
 <211> 418

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056f07d1
 <400> 30670

atcaacaaaa gaattctaca ttctactatt tctttgtcct ccttacactg gccttcggac 60
 aaaaaagaaa gtaaactgtg actatTTTTT tccgggtggtg taaaatggag tagtagtata 120
 tggaaaacgt taagaaaaga aaagaagaag aagaaaaaaa ctctcctaa gagtaattaa 180
 catgaacact ggccttaatg ccagattgac aaagaggga attgtgtacg gtggaccac 240
 acattgtgca caaacacaga tgcctacatg gcaacaacag cactatcgat tctcttacc 300
 cacactgatt gcacatcctc ttccccaaaa cgccgtgggt tcgctcgat ccgtcgcaaa 360
 ccttctctc ctctcggtgg ggggtggttgt tggtgttgtt gcttgctcaa ctcgattc 418

<210> 30671
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056f08d1
 <400> 30671

caaaaccaat cataaacaat aaaattaaat aaaatagcag gccaccgtt caaacagaaa 60
 tagaaggag aaaataattg attacaagtt cacaagtcaa tgacatgtt gaaataaacc 120
 atgttagtat ttggaaaacc aacataaaat gcatatagg gacaatgcca atcacaaccc 180
 atgcccttaa cttgacaagc ctctgactct gtcatttaag tttcaggcaa aacatattgt 240
 tacagtttct acataaaggc cttattcata tgaataaaac agaaaaggaa aatgaaatat 300
 caacaaatga gaatgctagt ttcattagcc tctccaattg tctttttgct tccttatctc 360
 tctaatgct ttaacagggg acttgcaacc caccctctcc tggatctcag gtagatcaac 420
 cctcat 426

<210> 30672
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400056f09d1

<400> 30672

aaaaataata taaaaaggca caacaaaacc atagcacata tcctaatgt ataattgccg 60

taaaaaacca aaaaaaaaaa aaaaactttt tttgaaagta caaaaacaac tcaattgaag 120

gaaacatgag aaaaatgaaa acccacaatg acaaaaccat ccaaccatac ttgcaaacca 180

gaacaaaaac agtactcaac agatacacag tccatcacat ttccatactg catgccaacc 240

attctatata ctgagggtcc aatctagggt accaatcttt taagcatata agcaacctat 300

gagagaacaa atcattcacc agccacatta aattctatgc tgggtggagct gattcatctt 360

atgatcctca ggcttatata tcctgctcac ctttctcatt ggtgttagag gccatttccg 420

gctcttcata cttcgattta tcctcgccaa cagttagttt cttggtgatc tggacctttt 480

ccggctcttt ctgctctgat ttgtcttcac caacagttag tttctcgagg agatcggcag 540

tagccgaagc atctttgttt tcctccccct ctc 573

<210> 30673

<211> 578

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400056g01d1

<400> 30673

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atgtagttcc aattcagaac accaaaccac tttcaagtat ttgccttaaa acagaatttc 120

cactttcggt aatgaaggaa attcaacatt gaaaccaaatt tattgcagac agcttctctt 180

cttttgcctc gtggattcaa acacaattgt aacattatca aacatgaatt ccattagtgt 240

aactcaagca tacaattcat cgatgttaca ttccccaaga aaaaccttga tgctgcgcgg 300

tgaaccacag ctgccttcgg caattagtgc tttgccattg gcagccatgt gtgcaataat 360

cttataaatc atttcaatat cttcaggagc atggcaacgg tcagctatct cttcgagggt 420

caatggctca acaggttctt tgcagcttgc ctcatcttagc actgccaaca ctgccttctg 480

aagtgcttag tacttacct gctgctttct taccagctt tcacaccgg gttgatgatt 540

aagccattat gttgaccaag gaggcataaa ttctact 578

<210> 30674
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056g07d1

<400> 30674

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 caagaatata atttgacta agcacctaga gtgcatttaa gtatctaagc acttgctcat 120
 tgaactcaaa gtcactgaa ttccaagctg aaattgaaac taagcacttg catgacatgt 180
 cgtctgcaat tctctttaca acatgctcct aaaacaagaa cattagttct agatgttact 240
 cattttgaaa gcttatgata agcagcatga cacaagact actgagaaag attttaacca 300
 agacatgtga actcttacat tcatggaagc ttaaaatttc agcttcaggg cttgtgaagt 360
 ttgaagccaa aaactctcgg gacatagctc tgtgaagggt tctggggcct tagttgtcca 420
 taagtcatca agaacagatg aggaaatgta gttccaaat aagcccatc aatggtgcct 480
 tgatactt 488

<210> 30675
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056g09d1

<400> 30675

agaaagatgc tatatatatta ttctttgaaa tagcaaatgt caagaacaac ctaggatttc 60
 aaagggagaa atcctagatt acaacttata agcatcattt tgaaacaaaa tcctaattaa 120
 cagcgatata gtcfaatgac aaacaaaaca agtagtcac accacacaca attttcccca 180
 gagattctga gtctcacata catgaatcta ttttgaagca gtgaggcttt catagaagcc 240
 tttaacaaac acataattct tagaaatact aagtctcaca ccacatcatc aaatctattt 300
 tgaacaaaa aggctttcat agagaccctt gaaaaaggag aaaacaggat ctctaggggg 360
 cagactttct ttgacaattg gatggttcaa aaattcttgg ctccaattgt ggagcttagg 420
 aaatttctca cttgtgaata actccaacc tgcaatttct tgaaccatag ggacccaaaa 480
 tgctatgtag acagcagcaa tatctaccaa cccaatctcc tcttctccaa agaacttctt 540

gtcctttatc tcattct

557

<210> 30676
<211> 436
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056g11d1

<400> 30676

atgggtggtgt gttgtgattt tgttgttcat aataacattg attacagatg catgaagcgc 60
taaacttata tagttgcttt ttacaagggc accaatgggc ttgagaccaa gaacaacccc 120
aaccccaatg atgtggccaa cagatccaca ggccaagggtg tgagcaaggg tgaagccagc 180
agggtcacca gtctgcaagc ctgaggccct cacatacagc tttagccctg cagtggcttt 240
cctgtttgct gatggagcca atccaaacct tccagcaaac agcatcaggg ttgtagaagc 300
caccataatc agatgagggg aggaaccaag gtagtcacat cgagctccca atgcaccctt 360
ccccttgcca ctcatgggtt gcacaggaac caagaacttc acaggggcaa ctgagaaatg 420
gggtctaaga ccaactg 436

<210> 30677
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056g12d1

<400> 30677

gaactgataa aggaaacact tttattaaga cttcaaatca cagcattcaa gataatacaa 60
tacgcaacac tttttagaaa gccttataac tataaactat aaaagctttg cccagatgaa 120
attacactgc gggcaaattt ttcattcacc tttagcttag ttatcttcat tgtcgcccaa 180
attattcttt gtcacatctt tgtattagcc ctggatggca acaccaaggg gagcagcatc 240
cataggtatt atcttctcaa tttctacacc cttgttgttc tggttttcat aggctgaaat 300
gtgcactcca agtgctgctc taccagaggg atcaagggtg ttagaccaag cagcatccca 360
ctcaacagct ttggctgtgc tacatgcaac acttgctcct ccaggaacag tgagcctagc 420
tgagttctga gggaagaacc tctcaaagat cattctgtag taatatgctt ccttgggttt 480

tggggtgttg tgggggtaaa tgggtaccagc attaagcatt attttttcag tcacatgttt 540
t 541

<210> 30678
<211> 468
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h03d1

<400> 30678

ccacccaaaa catgtaataa tctagattac accaaataat atatagtact ctttcaagta 60
tcatgtccta aaggttgact acaaacatta aaggagagaaa aggggaataaa tttgagaaat 120
aaacaaagta ttgcaacttc ctaagaagaa atcataacca tttcaatatt ctttcttcga 180
ttccactatg accgtagggc ccattgcccc ttttggaaca gaattgcacc aatacaaagg 240
tactttctgg accttaaata aaggaatctt gaccacacgc tgtcaaagcc ttattaaaat 300
gccattttga gcccatatca ctgaagaaat ttcacaagaa tgtgtggatg agattgatct 360
aaaatgccat acgaccagcc agcctgctct caagtatcct cttatctatg gctgcatcaa 420
tgtagctcat ctggctacta tcatcatgca cctgatattt tggcaaag 468

<210> 30679
<211> 455
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h05d1

<400> 30679

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ttgtgttatg cgtgttttcc tttctgtcta caaaaaaacc cgtgttcttc ttttttgtaa 120
tccttctata tattataaat tatatcaatc aataaaagca agcatgataa agtatagttt 180
acaggtttat cccaaacaaa tgcaagtgcata tatataaaca tctggaattg cagttcagct 240
ctatgactag acctgagaag gagttaggct ccaccaacta aaagaatagc aagaactaat 300
atactgaaaa ctattaaagc atttaagtag gctatgtatg ctacaaaaag ccagaattat 360
ccaaaaatgg aaggtctcat tatgttgtaa cttgcacata cttgcaaaga tactaaatg 420

attatggaaa atgacctgaa taccatattt aatgt

455

<210> 30680
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h07d1

<400> 30680

atagaaactt ctgtgctata catagcacat atatgggata acaatcatca ttcaaaaacc 60
acacatgtcc gacagaagac gaaaaagtag acatcaaaca cagcatattt cagacactct 120
agatgatcat catgtgcttc accatcatca tctacatcac cagactcggg accaacctgc 180
tcataatect tctcaagagc agcaaggctc tcacgagcct atgagaactc accctctgcc 240
ataccttcac ccacatacca gagcacgaag gcccttttag catacatgag gtcaaactga 300
tgatcaatcc tggagaacac ttcaggcaca ctagtggagt tcgaaatcat gcacacagcc 360
ctctgcacct tggcaaggct acctccagga acaacagtag gaggctgata gtttatacca 420
cacttgaacc cagtggggca ccaatccaca aactggatgg atctcttggt catgatggtg 480
gccacagcag catttacatg cttgggcacg acaacggccc ggtacattaa acaac 535

<210> 30681
<211> 433
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400056h08d1

<400> 30681

aatattataa gcagagattc ataattcaga gtaggcgaac tttatacaga agcgaccaat 60
taccaaakat taaaaaaaaa aaaaggaagc aaccatgagc ttaacacacc catcacaagt 120
ccaaaacact tgaacttgct gaaaggcaag acatgaccac tttattctaa ggatgtttgt 180
ttaacacaaa acaccagagg gcgcgaaaac catcacagac ataatacata agtttttagc 240
tacacattaa taggttatca ttattcctaa ttaagggcta tctctgcttg aagcttgctc 300
tcccaacacc taacttgcaa gtgcaggggt tgcaggagca gtttggtcca catttgagc 360
catcgttctc agggggcaca cccatttcag caccctcaaa ttgagcctta acaggtgcc 420

ctcccatgac caa

433

<210> 30682
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056h10d1

<400> 30682

aaaaaaaaag aggatttttt ttaaaaaata aagcaaataa tattggaata tcctgcacaa 60
 agaaagatca taaagatgaa caaatgaaac atcatctggg tttttttatt tagcactata 120
 ttattgacaa agaatactaa aacgggactac caaggggttat caatcaatgt gcattgtgaa 180
 agggcagcga atatttgaaa gcctgcccac tccttgtctt tgggttgtaa atgtcacaca 240
 catgggtgag ttttccttta agctgaggta atcccactct ttcggattaa ttgggttaat 300
 aaatagaaaa ttgactgaaa atcaaaatca taagcaagaa tttcttgctg actccaaaac 360
 caaaatctaa agatgatcaa taattgcctt tgtgaattca gttgtctttg aactgccacc 420
 gaggtcagct gttcgggtact tcccttctgc aattgtgttc aggatggctt tttgaatctg 480
 ttctgctttg tcatggagggt tcaaattggcg caacattgta acaccactta gcagtaaagc 540
 agttgga 547

<210> 30683
 <211> 432
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400056h12d1

<400> 30683

aaccccccaa aaaaaaaggg aattattgaa aaactggaaa ttggggccaga tacatgaaaa 60
 cttaccccc cttgttcaca aattgggttaa ttcaccattt gaaaaggaac tttctcatat 120
 acctggtttt ctatcttaat actccacagg agtgggtccaa gtcccttgca cactagggcg 180
 tttgggtaca tgttttggcc taaatttcac taccttctt cccaatgcat tttttagcct 240
 ggttgcatgc aaaagtatgt cttctggatc catattcttc acagataca ctcgctgatt 300
 cttggtcttg taataaccct tcagatgggg atgctgacca cggatgagtt cagtgccttc 360

ctcttatgga ggatttttct ccttaaagtc tggcaaatga aactccataa atgcccttat 420
acctctgcta ct 432

<210> 30684
<211> 369
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057a01d1

<400> 30684

attggggcac ccttctatcc aaaaaaagaa ccgaaggggg cattgatatc ccctcccaa 60
atgggggggca cgaataagat aaaccatgct aaaatttttaa aaacctacat ggaatgcctc 120
tagggaactt tggcaaacag tacaaaagtg tttaacttgg catggcgaga accctgttat 180
ttccgttatt ggccaccaat taacgggtgg attttttaca tatttcttgg caccaactat 240
acaaattaag gtgttgcttg aaaataagcg aaatttttgc tgcttttatt agggaaacct 300
cgtgatgaac cggttccccg gctttaaagg ggctttttga atgggctaag tccccaccga 360
atgttttaa 369

<210> 30685
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057a05d1

<400> 30685

aacttggaag agggttcatt ccaaaacagt tgaaggaatg aaacattatt tatgttcgta 60
acataaaaca agtacccttg gtgtatgttt ttcataacat gatcaaagtg ggcattacag 120
tgcatgaata ccaaaaatag cttccttggt gaagtctcta gaagctgtcc tgaaaccgt 180
atttttaagc ttggcataag tctcatgaaa agcacattca tagaaatcct gcccttgcaa 240
cttgagggtc ttggaagaga tgccagatga attaggtgac acgaacatat cataatttga 300
cccgccattg ttgtggtgat taatccgcca ttcaagttgt acttttggca tgctagttag 360
cttctgttgc tcagaagtca tgtgagactc atcattgaat aaaagaagct tctcttgatc 420
tgatgtaaga ttaacaatgg tgatatcatg gatactaggc ctccttttat tggctttccc 480

tccagaaagc ttttgcctta tataataactt ttgagcatg

519

<210> 30686
 <211> 549
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057a06d1

<400> 30686

acatacacgg gaacacacat aacatatttc ataacaagtc ttccttccca agcatgtata 60
 aaatcaacaa gggagcggag tatgaaaaaa gattacaaac agagaagtgc tagtaacaaa 120
 ttttctagca ctgtctttct catgccctct tttatccgtt aaaattcatg tgattcttac 180
 tcatttataa ataggaccta tcaaataaaa atgaaactca tataatctaat aggatacaca 240
 tgaatttaac ctaacaaaaa aagtaataaa aaattgtact actagcattt ctctaacaaa 300
 tattaaactt aagagcccaa aagagagata agagaggcag agtatatgca cacaacaatt 360
 caacacaata ttcaaaccgt agtgatactc tccagtctcc attgattccc ttgataactg 420
 gaagatgtaa ctgatataag ttttcctatg cttgctccca ctttttaagt ttgagactct 480
 tcataaagct gtgcatagaa tttccttggt ctgtgagcaa cgatcaagct caaagatgct 540
 gcacataag 549

<210> 30687
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057a08d1

<400> 30687

gtatgttatt aaggttttat agtatatttc atattatagg tattctatac attgtttctt 60
 ttgaggagca catgcagcaa ttcagtctta ctacatgatt gtctttattt agaaaacaaa 120
 ggtttaccaa ttaaacaacac ttatcagcta ggctttggac cttagacaaa ctgattaagg 180
 tactcattca cagtgatgta tttcacatca ggatatagag ctgaagcttc cactccaaaa 240
 gaagactcaa tttcaaagtt agtatgatcc ccctttacat aagaagagtg gttaattgac 300
 aggatcacat tcacgggtgg tgcggactct tcaatttgct ttaggagggg ctcttctgga 360

acataaattc tttcaagagt tttaccaatt ttttctccc agagagtaac aagcctatTT 420
 aacgacaagg tattatctgg tggaataatg tatagaatTT tgttcagggt tcatggatca 480
 ttcacaggat tg 492

<210> 30688
 <211> 540
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057a11d1
 <400> 30688

aacttggaag aggggttcatt ccaaaacagt tgaaggaatg aaacattatt tatgttcgta 60
 acataaaaca agtacccttg gtgtatgTT ttcataacat gatcaaagtg ggcattacag 120
 tgcataaata ccaaaaatag cttccttggt gaagtctcta gaagctgtcc tgaaacccgt 180
 atTTTTaagc ttggcataag tctcatgaaa agcacattca tagaaatcct gcccttgcaa 240
 cttgagggtc ttggaagaga tgccagatga attaggtgac acgaacatat cataatttga 300
 cccgccattg ttgtggtgat taatccgcca ttcaagttgt actTTTtgga tgctagttag 360
 cttctgttgc tcagaagtca tgtgagactc atcattgaat aaaagaggct tttcttgatc 420
 tgatgtaaga ataacaatgg tgatatcatg gattctaggc cctctTTTat tggctTTTcg 480
 tcagaaagct tttgcctata tatactTTTg agcatgactt gccacttggg tgggagTTTT 540

<210> 30689
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057a12d1
 <400> 30689

gaattacaat tttaaatTTT gTTTccatt ttaattatct atggaatcaa aatcccaagg 60
 ggattacaac aaggtacttc caagttccaa aaataacact tgcccagTTT gccatgtaa 120
 gcaaggaaaa ccaccactc ctattatcca aaatgtcgcc acggtaaaaa ctaaaaaaaa 180
 aaaaaaaaga aagataagaa aaaggacta gaaaaagaga gagagagaga gaggtatgta 240
 aacatgTTTT ttgacatggt tggTTTggat ttcaaatcta caacgccacc acggtggtTT 300

aacccttggt ggcggtagcc acgacttgag acccagacgg tggaggagcc acaacttttt 360
 tcttcgacgc catgacaaac ttctcctttc tctcgtcctg gtttatctgc tgttggcgac 420
 ac 422

<210> 30690
 <211> 468
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b04d1

<400> 30690

caaataaaa ctcatggtta tcatgacgat aaaagcaaca gttcatacaa ttaatgttat 60
 ataatcactg acttaggac ttggatcacc attcaccacc actgttagtc agcatcaagc 120
 ataccctggt tctcaacctg gtttgcaata gagatatcat aagctgcac attgcatgaa 180
 cataaacaca atgataactt atatgtttta aatataacaa ccacttccaa cggaaactta 240
 tttttgctta actaagcaac aaattcaaga gcagaaaatc aatgaactat cacagtactt 300
 cttggcgggg aaaaaatagc actttaatct aatttttttt aagcagcact tcccaaata 360
 ctttctccaa gttaatgtgt gaaagaccac ctagtttggt gccctcctct gccttcttct 420
 tcaattccat gaccttttgc ctcatcttct ttctatctc tccctcca 468

<210> 30691
 <211> 561
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400057b06d1

<400> 30691

acaaaaaaaa aaaagttgga ctgttttaga ataaaatatg tatcaacaaa attgaaatgt 60
 aaaatttaca atagtaacaa gtataacaac gacaatttat tataacaatc catagaagat 120
 aaacctaatt tctatatatg ccatacaaac aaacaataac aagttacaca tttaacaatac 180
 ataaggatat aaccagattt attaccaagt ttgccttcaa tccaagtga aaccactgga 240
 aaatttcaca gatccttggt catgtttatg aagctgacaa gctgctgaat atacgcttca 300

aactagaaca tgctgcacgc aatcttccca tgctcattga gcttatcttt ggacagaagc 360
 gaacatcaag agtctccagc atagtgcatt ttgatatagc agcctcaaca gcttcctcat 420
 taatgttgca agactgaagg aatagactgg tcaatctcgg acactctagc ttcaaaactt 480
 tcaaagagga acaattgctt agattaagcc agcttaggtn gagacaagct acatcaactt 540
 ccttcaaatt agctgataga g 561

<210> 30692
 <211> 447
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b08d1

<400> 30692
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 gacctcggtg gtgggacttt tgatgtctcc cttctcacca ttgaggaggg tattttcgaa 120
 gtgaaagcca ctgatggtga tactcacttg ggaggtgaag atttagatca caaactggtg 180
 aaccattttg ttcacgaatt caagacgaag aacaagaagg atattaacgg aaatgccaaa 240
 gcattgatga gggtgagaac agcatgtgac agggccagga ggactctttc tttcactgct 300
 cagaccacca ttgagaacga ttccttgat gaggggtattg acttctacac aaccatgacc 360
 cgtgcccggt tcgaagagct taacatggac ctattcatga agtgcatgga tcccaggagg 420
 aagtgtttgc gggatgctaa gatggac 447

<210> 30693
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b09d1

<400> 30693
 atcttgcaaa tcacgctctc attagtcaag tcattactga atgtccattg tataaaataa 60
 accacacaag atttgacgc cacgcatgtt gtaagtaaaa atatcagaaa atgatcaaag 120
 tcacgagaga acaatcaaaa ccaaaaaagg ccacacatac aagcacttgc ttgacagacc 180
 aaaatgtatt tgaaaaagga agggcaattg aaggaaccaa cattcaagat tctggaacag 240

aggccacggt tgttgacgtt gctgttgctg ctgctgctgc tgcacgtttg actgaggcag 300
 acttagtaag atgattatag ctccctttct ccttaaaaag ctgggagaag tgggtgcttgc 360
 aatacaaaat gccctcaagg gctgcgtaat tgcacggcgt tatgggacat ccaccatgtg 420
 aacacttgaa acatgaattg tgataggcct gccctttcac tgataccttt tacaatggat 480
 aagcaagttt tgccacatgt g 501

<210> 30694
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b10d1

<400> 30694
 cacatgcaaa gtgataattc tattctgttg gtttccaaat ggtacaaggc acaccaaaaa 60
 tacatgggtg atctttatatt ttgtgacaaa gaaaacatca tcaaaacatc tcttcgatcg 120
 ccgcctaadc aaggagctag gtagtcgcat ggtatggtag aaaactctaa gtttcctat 180
 agatagtgtg caacatgcat ggaatacaag gatgaaaaga atacatggat agtgtacatt 240
 ttacatgctc cttcccacaa agctttctac ttaatgggct tgaaagcttg atgaccatag 300
 tgggtgcaagt tgtacatttc attggcaatg ctgcagctcc agcacttgct gctcatcatg 360
 tggaggcata attctcttgg aacacccctg cttgaccttt gtgggaggaa tggccttatca 420
 aaataaggca ttaattgagc tcttggaacc at 452

<210> 30695
 <211> 539
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057b12d1

<400> 30695
 attgtaataa gagaaaatta acattagcca gaattacatt agatattccg atgttacatg 60
 aaaattatac cagatctaga caatttcaga tcatgtcctt tgttaatact atcaaggacc 120
 taaaaaaca gaaaaattaa cctatttaca tcaaaggatg taattaacaa catcttatct 180
 aatctacag acaatttaat ggaagattaa tcttccaaaa aaaaaacaag agaaaaaaaa 240

atctgcttag tcttttcctt tctttctgct ggctttttta tgaaaaatta aaagattaaa 300
 aaaaaagggtt aatattcatt aggtggagcc aagttaagat cgagattgag ctcttttttg 360
 ggctggcaat cgacgacgac ggaggacgag tcggagt.cgc tctggaccgg acccggttcg 420
 aatcgagtg ggaagggctg ggtcatgaaa tgggcct.cgt cgcgaaagta aaccggg.cgc 480
 atgggtgcga cgggggtgggt cacgaggatt tgctggtgat gggtaggaac ggaaagcga 539

<210> 30696
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c01d1

<400> 30696

agattcaaca tattttatta aatatgctaa caacttaatg ctagctgac atcaatttag 60
 acaaaagctt acaactatga ctttaacaaac aattaactat ttttacatat aatcatataa 120
 ctatacaata ttaattgtaa gaacgttaaa tatattttct tgattttcac tataaaagaa 180
 aatttataat aatctaagtt tgggtttcag ctaattagct gtccagaaac catgaaaacc 240
 tagaggaaaa tttaagtggc ttggaatttt gattctcgca acaagggcat tatctgctac 300
 tatccttttt gggccaaga tgacaaggga acatctattc attgaaacag catactcaac 360
 aacaagaaga tagccatcat cttcttggtt acctttggga acaa 404

<210> 30697
 <211> 570
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c03d1

<400> 30697

cgcgagataa gaaataattt gcataagggtg tgtgatatat gatcttaaatt cttattttgt 60
 aatttttaac aaaccaacc ttttccact tctatgagac attcttgaac catcctatca 120
 ttatatttat aagccacatg ataggattta atattagtaa catttgaaca tattagcaat 180
 tctcaagaat ctcaaccaca actaaaccaa aacaacaaac agtaaagcat acaaaaattg 240
 gtgtgttcaa aatgtttgac aatgaaaac agcccttca cttgcagata ctttttggtg 300

gcatgcaaat ttagctgtat tgaattcata aagtgtcaac aggtgtatatt gattgtgctc 360
 cccattcagt ccaagatcca tcataaactg caacatcaga ctttctaaga cgatgaagac 420
 ccaatgcaag aatgcaagca gttacgcctg ttccacatga agtcacagct gggctttcca 480
 gagagatgcc ttcttgttca aatcgcttct tcaactcatc tgctggtaac aatgtctgtg 540
 aactatctaa caactgtgca aaagggatgc 570

<210> 30698
 <211> 560
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c04d1

<400> 30698

atatagaaac ttctgtgcta tacatagcac atatatttga taacaatcat cattcaaaaa 60
 ccacacatgt ccgacagaag acgaaaaagt agacatcaa cacacgatat ttcagacact 120
 ctaataatca tcatctcctt caccatcatc atctccatca ccagactcgg caccaacctc 180
 ctcataatcc ttctcaagag cagcaaggtc ctcacgagcc tctgagaact caccctcttc 240
 cataccttca cccacatacc agtgcacgaa ggccctcttc gcatacatga ggtcaaactt 300
 atgatcaatc ctggagaaca cttcagccac actagtggag ttcgaaatca tgcacacagc 360
 cctctgcacc ttggcaaggt cacctccagg aacaacagta ggaggctgat agtttatacc 420
 acacttgaac ccagtggggc accaatccac aaactggatg gttctcttgg tcttgatggg 480
 ggccacagca gcattcacat ccttgggcac gacatcgctc cgtacatcaa acaacacgcc 540
 atgtacttgc cgtggcgagg 560

<210> 30699
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057c05d1

<400> 30699

atattagaac ataattactt aaatacaaaa ttgaacacaa agtgcacaaa cactacaatt 60
 ttactcgaaa ttccatcatg tagacctcc cttagaagaa cacctactcc ttacaagatt 120

tattacacaa caatttccca aaatcatgag tctctatcac acccacaatt ggtctatttg 180
gaagcagtga tggatgcata tcgagctttg aagaacccca caaccctatc tctttgggga 240
agattctttt tcacaacagg gtggttggtg tagtcttcac cccatttgta gagttttgga 300
aacttctcat tggtcagcaa tttcaacccc acagcctctt caatcgaggg gagccagaaa 360
gctatgaagc cagcggctat gtccactatg cctatagtag tctcacctcc aaagaacttg 420
tgtttgagta cattctcaag aatttgaaga gactcgagtg attcctcagt gcccttggtca 480
cgttcctcct tgactgcagt aaatgctgcc tttgatattg aggcattgcat tt 532

<210> 30700
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057c07d1

<400> 30700

ggcccaaaac gggaaaattt taaaacaaaa agggatgggg gaaaacccca aaaaatcccc 60
ctttcttttg ggaaaacagg gtttggaataa aataagggga aaggggttg ggaaaaataa 120
attgttacia aaccatccta aaaccttaaa attttcccc cccggttttg gaaccccccc 180
attttaaaaa attttttttg ggggttttaa aaaacccaac ccaaggaact tgaaaattca 240
ccttttttaa ccttttcctt gggaaagttc tttccggata aatttggttg gggaacccat 300
ttttggaagg gctggtttta ttttaagggtt cttgcggtt ttgaaacccc aatcaggggtg 360
gcccacaaaa aggtttttct taacccccctg aaggctttta tggattctgt aaccatttct 420
ttaaaagggg ggaatttttg gg 442

<210> 30701
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057c10d1

<400> 30701

agtagggaaa aagaataaga ccatctaatt ttttaattaa ttacattat tccatgttta 60
tacacttata aattattcct taattttcaa tatatcacgt gtaataaatc tataaggcca 120

aatttggttaa tcccgcgggt tactcttaaa ctgcgagaag ctgccacggc cacgtttgaa 180
acgccatggt gcacgggaat gaacatagaa catagttgag gtagttggct tagaagacat 240
aggtatggag gtctacattt gtggtctggt ctggacaaca tagacttttc catccttgat 300
gacaccttca atgtcctgag gagtgccata caactcttca atttcatttc ctgcacgggc 360
aatgctggac aagattgact ggcgaaaact gccatcaagg atcagtttgt ctgaagaata 420
atcaagcacc accttctctg cttcatccat tggcacactg tcataaagac ctgcaccagc 480
ataaccttct agatcttcac cattggaatc agatcgaaaa ataattgacc gtcttataaa 540
taggccgaca gg 552

<210> 30702
<211> 475
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400057c12d1
<400> 30702

ataaataatt ccgttccatt cttaatgacc cagggttaaaa ttcagcaatc ttctgagtac 60
aacaatcacg caagacggta gtaggtcttt ataaagaaag acgtaccaac ttgcaaaaca 120
tggaagaggga caaaaagaac agctcccaat actccaggct ttggagggtg tagggcttga 180
gtcaaaaaga taaaacatgt ccccaaatac agttgtagat gaacaagtct aaatctaatt 240
ttgtgtcttg ataccattgt ctgtgtggtt tcctgattct tgttcattct tgggagggtg 300
ttctttctcg gcatcaccaa catcattgca attgttctct tccaacaatt gtgtcggaga 360
ttctgctttc ttggcttttt ctaaactctt agggctcaaa aagctaggct tggttggttg 420
aagaaaggag tcttgccac attttgtcag ttatcacacc cttgttctgc ctctc 475

<210> 30703
<211> 226
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400057d01d1
<400> 30703

agagcaagtt catatcgtag gtttatacag gatcagccaa gaacagagtg tactttgtga 60

ttttcagcta cataagcctc tacccacgta aacggcccca ttacaacagt ctaatgacat 120
gacatcaacg acatgggcga ccgtataaaa acaagacagg gcctttgctg gggggtggca 180
gaggaacaga aggatcaaat tcagactggt gaaactattt ttgcct 226

<210> 30704
<211> 530
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057d02d1

<400> 30704

gaagttggca aaaatatata ttcttattct caatagatga aaaatcatct agtagcacca 60
aaacacagaa catgttttcc caaacaatga caatggctat actacaatat atggttttgt 120
tgtatcatca aatgaatata ttccaatcag acccaacttt cctcttttaa gactatgtac 180
acagataact cttctaatta aggcaaacca ctcaatagca gtaagaaaat aaaagcatgc 240
acacaagtgc aattaactct tatcattggg acatcaacat ggctctcca cagagtctta 300
ttagcattcc accccaatt gtttgagcac tggaccagtt tgcttgggca agaagggatc 360
aatcctgacc caaatcaatg agaaaataga tgctagaagg attgaccaca aactacaat 420
ggtaggagtc ctgttttgct ttcccatgag acctttgagg aaagggtaca agtgaacaat 480
gaccagaag gcaaagaaca gcttcccaaa caagggtccc atgaaccata 530

<210> 30705
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400057d03d1

<400> 30705

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gaaattatta gatagtctca gaccaccaca tgttttatga tctcaatcaa tcaatctcta 180
catgaaacta gtcaagcatt tcaattaact atgacactca atttcatgtc atgtggagat 240
caattaggaa tttggtctga actctgaacc acaggataat ctctccactt acttatactc 300

aaaattgggc acagggggag catcgaaact ctccagaatc ttcgtctcgc ttccgcccgt 360
 gccggcggtc tctctctgt tccctccacc gaaccacccct ccgagccacg gctgctcgga 420
 cgactgcggn ggctgcggct gcggctcgtc catgatcata ggcatgggct gctgcgcgct 480
 gaggaacttg ttgagcatga tcc 503

<210> 30706
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d04d1

<400> 30706

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 taacttgcca cgggctttgc aatgactttc ttaacggctt cagcataagt cctgtgctga 180
 taggtgagag ttgattcaag caggteccaa agtgagggtt taggattcca gccaaagtgc 240
 ctattaatta tggcatgctc aggaattctc ttgtcactat catcatatcc ctcaccataa 300
 aattctttgg agtcacatc aatagtaggt tttccagag gtgcttctcc acttaccttt 360
 gaataaacct gagtcatcat ttcagcaagc tgcctaactg taacctcatt gtttgggttt 420
 cccacattaa aaatatgtcc attagccctg gcgggatttt caatcatcaa taagacagct 480
 tcaatagcat ccttaatata cacaaaagtc ctctgggaat ggccaccatc cacaagcttg 540
 aggg 544

<210> 30707
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d06d1

<400> 30707

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 tagtcagcag gaacaaagat agagagatcc aacgatcttt aaatttcaca tttgccataa 120
 atatataaca gaaaagaggg tatgggatat gagttaagtt ttgatctcat tcaactacag 180

tatcccaaac cattactctt aagactttga acttcacttg tactccagga tcatgttggt 240
 ctcaggagct aatccaacac aagcccttag gatgttttcc agcatagctc gctgctttga 300
 cagtgcatta accactggcg tactcgggtg aaccagaggg gccttgggtca ggtaactgag 360
 gatggtcgca actgggtgga atgagtggaa ctttccctca ttttcagctt taaactcgat 420
 tcgagtgcta agctcagcaa gaaggaccaa gtccaagata ataggagccg ctaacagtga 480
 atccttacia gtgggtgtgca acacaattgt gttcttttgc cccatgaata tctc 534

<210> 30708
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d07d1

<400> 30708
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 gaaacagata ctacaactga atcaggttct tgaaacaata agtaccaaga aggaaccacc 180
 caataagaat ggaagtgaag aagaacaaaa actttaggaa ggtgaagccc cagaatgtga 240
 ctccaagaaa aaatacaacc acaaattgga agatagatcg aagcatagat gctttgctga 300
 cccaacgtcc attgaataaa atgaaaattg ccagattcac cacattccat tcaccagtca 360
 gaaaacccaa cttgttcaaa ttattggcaa caaacgagtg gcagttgcag gtaaagagat 420
 tgtaagatag atgttggaat tcttgagtgc ttttccttag tgcattcatc caagtcctca 480
 aatctcctct agtttcaccc tgcattgagt gttcctacca ttgtacacag actggactaa 540
 gggacacaac actttttttg gg 562

<210> 30709
 <211> 385
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d08d1

<400> 30709
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cagttacaaa gactaatgag cccacaattt taaaaactta agcaaaggca agccaacttt 120
 ataggttctt ggggtgcacaa gttatcaagc ttgggaatta agggaaaatg gacatggcca 180
 atttcaatag tcttcacata tgtttggccc tctaagcaaa agcttcaggg tgggccataa 240
 gtttgtcaaa ccctgggtca tcaggtcttc tggtttaggc agtaggcagg ctgcaggctt 300
 catagatctc agctgcatgg accattaagt ctagtaagca tggtttctcc tcctaaaagc 360
 accactctga cttgacaacc cagca 385

<210> 30710
 <211> 467
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d10d1

<400> 30710

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 aaaacactac acccggttaa aattgcatta attcagtcag cctaaaaaca agtacaaact 180
 tctgaataac aagaaattaa atgacctaaa aaatgcacct acagagtcca tacatattct 240
 ggtgcatctt tccttttccc agccaatgta cgatacaaat acatcttctc taccttctgc 300
 ccatcttcca gactacaatc ttcttgctcg ttttcattga agatctccac attcaacctt 360
 ggcattcttct tggctagcaa cttgcaggct cgcacagtca cttcacagga cgacattcaa 420
 agggatcgca ttgtttcata cttccctacg ttcgtcagaa gtgccat 467

<210> 30711
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057d12d1

<400> 30711

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 ttgctagttt caagcgtgta tcttgatagg ctttcttctc agaccaagta ttcacagggt 180

ccaagatttc agaagggact ccctctagtg ctgttgggat ctcaagccca aacacttcag 240
 tcttagtgta ctgtgcattc aaaaggctcc cagagtgaat agcatcaatg attttcctag 300
 tatacgctaa cttaatccga ttgcctaate cataacttcc tcttgaccag ccagtattga 360
 caagccatcc agtagcccca tgcttctgca tcttttggct agcattgctg catatttggt 420
 aggggtgcatc attataaacg ctgccccgaa acaagcagag aat 463

<210> 30712
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057e03d1

<400> 30712
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 atataaccct atgtccccag ccaatTTTTg actgaaattg gatccaaaat agtatcaatt 180
 gggatcataa aaaaagggcc caaaaaaatt tatgtgaagg taaaggggaa gggatcacc 240
 gggggtttaa attcttgggc ttttaatttac ttaataatgg gctccttcct gcacgttcac 300
 atttccttta tctgtttaag cactgctgac cttgttctta cccccaagg tccaatggg 360
 tttagccgga gtaccctca atgccttcac tccgaagg 399

<210> 30713
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057e04d1

<400> 30713
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 tgaactttga aataaatttg ggacatggga cactttctga cgtctattat gaaaggaaga 120
 acgttcaaat gactgtata ggcataatta aacgggatat tacatgaaac tagaagctaa 180
 gcagtgtctg ctgccggttg agtcacccca aactttacca acagcttaat cagggttttt 240
 ggggagcaaa cttgatactt gacttttcca gagggtgaga gaaatacctt tgcaagctca 300

agctttttcag aggtaaaaact tgtgctggcc atagttttac ttagcacctt cagtgcgaagt 360
tgaactgctt cttcccttgg gatatcatcc ttgtagtccct gtttcagaat tgactgtgct 420
gcctgggttg tggcaccaat agctgcagct ttccaaccac cataatttcc actgggggtca 480
ctaattgt 487

<210> 30714
<211> 373
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057e06d1

<400> 30714

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ttgtgaccgg aattttaaat tttcccaaaa caggccaaat tttttaagct acagctacct 120
aaaactttga atttcaagaa aagatttttt tccctattgg ccaaagaaaa acaacaaacc 180
cccccaaaaa gctggaactg caaaagggga attcagcggc ttccaaatgc aactgggttcg 240
gtattgaaga gatactttac ttgggacaaa accgaattat gtgccggatc ataaggggtga 300
actttaaaag ggatttcaag tattgcatga acgggcttgg tataactttt cacccaaaac 360
cttatcatat ttg 373

<210> 30715
<211> 432
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057e09d1

<400> 30715

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tcatgaaaca caatcaaaga gcgatgatga tgactcgcaa gtcctgact agaataatct 120
cgtggagtat ctaatagaaa aaagtggcgg caactgaaag caggggtggca aatactccaa 180
caactccaag agatgcagca ccagagttct gtggggggagg agtgacagca ccggctggag 240
aagggctaga aggagtgtg gggggggccg cggcggaagg tgggtgtggc gcgctgctgc 300
cggtgacgtt gatggcaagc ttttgacctt ccaaacagtg ccctggaatt ccacagatga 360

agaaatgttg accagatttg ttgagggtca ctttcgcatg cggagtgggtg aaagtggcaa 420
taggagaagc tg 432

<210> 30716
<211> 492
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057e12d1

<400> 30716

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caaaagcctg gtacaaaatc ttaacaaatg aaaacaagtg gctactcgcc acaatgataa 120
ggcaaagtga acaaaaaaaaa aaaaaccagt aatatatgat atgtgaaaaa caggtaaccg 180
atcctaataa atgcttataa ttgaagtttg catccaatgt ggatatgaag aggatatacc 240
cgacctcttt cgggccttgc attatatgag acctagacaa gagactatgt ccttgaaatg 300
gggggggatca ttttactagg aagatgcttc atgatggatg cagtgccac acgatgcagt 360
gccaccactg aatgcccggtg gtgggagaga cccttggact tggcatgttg catggcgaat 420
tctattgctt cttctgttgt ttcagcatga gaagctctag cagaagctgc actcaacacg 480
gggaaccaac cc 492

<210> 30717
<211> 462
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057f04d1

<400> 30717

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atgagatatt tatcaactcc acaagctagt taacatactt cattacttac tggcctaaga 120
aaagtatgca tatacagctc atcaatctac agattcatgc aatagtcctc atgggcctga 180
gcttcagcta gaccaggcac attgaagagt tcattaacat ctgcccctag tatgcatata 240
caactcgtga acctactggc tactgattca ggcaactgtt tacatgacca tgggctttat 300
ccgagatctg gtaccgggaa acgctcatca gcatcttgat ttaggacttc aatcctaggc 360

tttttctaag acaacaagga tttgggggct ttgtgtgagc caacactgct agtcattgga 420
agctgaggaa ctttagccgc cgcttaagct tatgaggaaa ct 462

<210> 30718
<211> 524
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057f06d1

<400> 30718

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aggtaaagac cacgatcgat gtttattaat taaggagcta gcatcgagga tatgtggagt 120
aaattagggt tagtaagttg catattgttg caactaatta atccccacag ttgacaaaact 180
gatagttaac aatgagatgc ccctgttgat atcctcttcc atctgtgtct atccgattga 240
aactccacac gtccaaatct aaccctccgt tgctgcactg atcaacaatt ctcaacaatta 300
tggtcgtcc cgtccctgta ttcgtcaccg ggaggcattt tccacaagca tcacggccgt 360
gaggtccaac ggggccacag aaagcagtcc agccatattt gctgcgcaa gagtaagggt 420
tggcagcgtc ccaagttgag caataagcac tcaccgtgtt caagtccac ccgtgttgct 480
ctggtaaata gttatgatac gtggcgcgac attagacgca cttt 524

<210> 30719
<211> 495
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400057f07d1

<400> 30719

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gagtaacaag aatccacatt agaaatccca actccatcat cagtctctat ggatggattg 120
atggatagaa ggaccatacc aagtttgcaa agagcaatga acacagaaat ttaaggcatc 180
tcatttgatt cacctgttga atgtgccatg cgatacgaag aactgataat cagggtgatt 240
cacctgaagc agccttaacc agttatctgc agcctgcaag agagaattta ctacttgact 300
ctcactaact ccattttgtg tccaaataga tccctttaac ttataggaag ccattgcaaa 360

agttggtaag gaaatctttg gcacaccgac atcaatgtca tttggataaa ccaaattgg 420
 ggctgagta cctccatttc ctgtcaaggg tgtatggagt gtatggatatg taagaaagca 480
 cgcatctaaa tcttt 495

<210> 30720
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057f09d1

<400> 30720

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 tgaaatgagg ggcaagattc tctcctgacc atacgggttc tacaaccatt accaaaactc 180
 atccgacatg aatgatcaac ccacgcccac ccttccaaca gccccctttt catgcatggg 240
 caatcacgag caaataaacc gaggatagtt tgactggtga aggaagaaaa tactaatact 300
 acttgatgc aagcttccat acttcacgaa cattagatga accatctgtg atttcagcaa 360
 ccaggctact agtcatgaca ccaccttct ctaccacaga cagaaaccgt cgagtttcac 420
 cacctacttc aaaataatac ttctttggtg ccatatacac tac 463

<210> 30721
 <211> 500
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057f10d1

<400> 30721

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 aggaaaaaca aagtgaagat gcttggtgca agaaacaagt ccacagtccc cggtacata 180
 taaattagaa aatgagaat ctaatctcac tgaaaactgc actggctgcc aatctccaag 240
 tctgctgtc cagttacctc ggtcgcatca atttcttcaa tatgcttggc cttgtttttg 300
 aggtcagata agccatttac atcactctta tcaccatagt tgtctgtctt aagtgtgtga 360

tgctttctcc tgattccagc tcctttctcc ttgtcccctt cagataaatt aactgcacca 420
 ttggtgctct ttgcgccgcc cagctttgga gattttgttc gcgttgctgg tagcttcttc 480
 aattcaacct taggaggggg 500

<210> 30722
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057f11d1
 <400> 30722

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 cctcttatta tgcaaacaag taaacaaggg gctaatttgc atttaaaaac ctgaatctaa 180
 atttaacaca ggatgtatca tctccaagtc attgtaaaat tcttggacaa aatgaaaac 240
 aagaagtagc aaccggctcc ttttaaagt gaatgggctt gtcataagt gccattgcgg 300
 cttctttcac agcctcgtc attgttggat gtgcatggca cacacgtgca atgtcctcac 360
 tagatgcac atactgtagt gctattgtg cttcatgaat aagctctcct gcattgggtg 420
 ccataatgtg cactcccaat atcttgtctg tctccttttc agccaatatc ttaaccagtc 480
 cttcagcatt gtcaattgcc ttagctctgc tattagccat gaacgggaa 529

<210> 30723
 <211> 587
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057g01d1
 <400> 30723

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 tacttttatt taatgcacaa acataacaag ggcaggaagg aaaaccacaa aattaaaacg 180
 aagatcatat agctgttaat aataacaaca acacatgcaa cataaaaacc acatgcagtt 240
 gtggtagtgg catcttcttc agattggaaa cgcctcaatg atggaaggga gagcgttgat 300

cttgatgatg ttgtaacgcg cgaaaccggt ttccttgaac agccacttcc agttctcttc 360
 ggtcctctct ttgccaccgg cgttgtgagc gagaagcatc atgtcgaatg cgatgccaac 420
 gtctgtgaag agttcgttgc cttcgggtcg aagaacgtga tccacgatta tgacttttcc 480
 tgtcttctct ggtattgcct ttctgcagtt cttcaagatc ttgatgcagt gctcgtcgct 540
 ccagtcatgc agaatccact tcatgtaaat agcatcagca ctaggaa 587

<210> 30724
 <211> 280
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g04d1

<400> 30724
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 aaggggccccg aaaaccaccc aagggaaggg gggtaaaaac ccacaaaaag cccagaaaaa 120
 aaaaccttgt ccaaaagggc ggaaaggggg gggggggcaa aaaaaaacct ttttttaaaa 180
 gggggggggg aaaggggggg aaaggggggg gggggggggg gggcaccaag gggggggggc 240
 cactgggggg gcgggggtgg gggccgacgc caattccggg 280

<210> 30725
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g07d1

<400> 30725
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 caataccata gacacaaaat tacaatgac cacaatacat atggcaggca gtaccgaaaa 180
 ggcaaaaagt gatacctaac acaataaacc ctagttgttg gattactgaa gtgcttcaaa 240
 tatcaactta atctgctccc caataagtag tgagcgattc gcaaccagtt ccatctcagc 300
 aagtcgcaat ttcctccact tgcccttcaa ctctttctc ttagattctt caattaacgc 360
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caaatttaca ttccacact ccttcaactc catcgactcc agtaagtgtt gtagtttcag 480
 atttttgcta ctacattcct gctagtagca tccttctttg gagtctcggc aagttttctt 540
 t 541

<210> 30726
 <211> 262
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057g09d1
 <400> 30726

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 aacaatgcct atcttaacag gtattccaaa acaactgggc aaaaaaaca gagccccata 120
 aagccggtaa aaaggtgagg ggaaaggatc cctggcaagc tgactattaa ttatgggtcat 180
 gtcccgaatt ctaaagaggc tatgatcata tacattacaa tagttctctc agtagcttaa 240
 atcaataggg gggtttttca ca 262

<210> 30727
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057g10d1
 <400> 30727

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 aactttctat aatccccatg ctgagtttcc gaggtccctt ttccctctct ctattcaact 180
 tcttcaagtt tgcgttcatt tttactagtt cactcctaac aaattccaac ccaaataatc 240
 cttttcccaa accccaaacg gctacaggta ccaatggcac atgcacaaca ccaacctgaa 300
 ttaatttga aacttaaag ataatgcaag gcgttggtgt attgcaataa cattttggag 360
 gaaaagagat cagaacaaaa aaattaaata tctaacaatt tcctgatatg taacaaaaaa 420
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<210> 30728
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g11d1

<400> 30728

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 aatgccagtg gttcaatagt cctcatgcac gggatccaaa attaaaagga aagccaaaaa 120
 agttaacccc agataattat atataaagca cttttgcaca ccaccaacct cttgaattct 180
 caccaaatta aaccgtgggc gcacacttta caaataaatt aagagaagaa aaaaaaagca 240
 tttaatggag agagagaaaa aaaagagaga tagaaaaaga aagaaacatg aattacaaag 300
 gccatgactt gaatcagatc aaaattcact ggaaagaggt tcatgggcag agccaatgaa 360
 gacattgccg tatataaggc cagccaaacc accaccaatt agagggtcaa ccc 413

<210> 30729
 <211> 424
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057g12d1

<400> 30729

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 agtaaacccc cgatctttat atataaatca cttctggcca ccaccaacct tttgaatttt 180
 tacctaatta aacagctggt gccacttttt caaattattt tagagaagaa aaaaaaaccc 240
 ttgaatgggg agagggaaaa aaaagataga ttgtaaaaga aagaaacatg aatttccaag 300
 gccatgactt gaatcaaatac aaaattcact ggaaagaggt gcctgtgtag agctaataag 360
 gacatttgcc tagattaggg cctccctacc accaccccat aagagggtcca acccaggaga 420
 tcca 424

<210> 30730
 <211> 397

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057h01d1

<400> 30730

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aaaggggcaa aaatTTTTTT ggggaatcaa tataatgatt agggggccca cctccccggtc   60
ccgtTTTTgt  gggaagggtta aacaaaaaaaaa ggtttccctcc caaattacaa aacccaattt  120
gaaaaccgga agggcccttt ttttttccaa acgagtttta cttcaaactt tcacccttta  180
tataaatgct gggggaagga aaaactcttc ccttaactgg tttttccaaa tccccccaaa  240
aaccctaata ttaaaatcct ttcgggcacc accggaaaaa aaaagggggc tatttctttt  300
aatggtgaga ccataaaaac tgtgtcgaaa cttggggggg gtgtccctga ttcttttagg  360
gccccctgc caaaaatatt tcttccattt cccccac:                               397

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<210> 30731
 <211> 379
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400057h02d1

<400> 30731

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aaaaaaaaaa aacttttcca tttaaaccct ctgtctttgg aaaaggacct ccaggggggg   60
ggcaaacaaa aaaatgttaa ttagggggcc taaaaattgg gagccgggtt tattttccag  120
aaaaaaaaaa aaaccttttt ttggggcatt tttaaaaaaa aacccttggt taaggggggg  180
gaatttttac cctccggggg tgccccctgc aaaaaatttc accgggaaaa acggtttccc  240
cgttcgccaa ttttttttta accaaaaaaaaa aatttttggg ggtacaaatt ttttttgcc  300
cgggggccaa attggccccc aaaagcaaac ctttggaaaa aaacccccct ccttcccaaa  360
tagctttggg gggggcgcc:                               379

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<210> 30732
 <211> 575
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400057h03d1

<400> 30732

agtacaaaaa caaaacttct catcaaaatc tagtgtcacc ctaatgtaag cttgaattta 60

aaaatatata cagaaatcca gattagcttt cactggtagg catttcagac actaactttt 120

gacaaagaaa tcaaaattca agaactttca actcaaaagc aagacctttc gtctggaaca 180

tagaaatcaa atgtaacatc aacagaaccc ggagtttctt cgggggtcct attcttaaca 240

tttggatttg gtcccaaate aatcctttct tgggtattacg ggttaaccgc gcgtacaggc 300

actgggacac agagtaaata gttccaaata tgtgtctgag ggagactctc agtggaccta 360

taccgtgaga ttatatattcc acaaattttg attagggcac gcaaacaatt gctaacaata 420

tttcgctttg cctcatcact tacttttacac cgatcagaga acagaatcat cttaaagcgt 480

tgcttagcaa tcctagcatt ggagttttgt ctagatgttg ccgatgggaa aattatcttn 540

catgcccaat ttaaccgctc aaagaagttc attta 575

<210> 30733

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h05d1

<400> 30733

aacgacaaaa acagcgagca ttcaaaagta tccattgcac cgagatgagt cctatacgct 60

tacttgacaa tataacaatac aaaacagtat caagagaatg atatgaaact caacgtgaca 120

aaatggcttt cgggtactttg ctacctgggg aacatataaa agtaaaagaa ctatataaat 180

taatgcagct gaggaaccca aaaattcaaa tctgggcca aacaaatggg aaaaactgag 240

taaaaaaaaat cttcctcatt tgctattacg ctgctgtggc agaggtgggg gctcttaact 300

cgattttgta tcctttcttt ccgcaatacc caaacttaac atacttttga accctttatt 360

gtctgcacaa aagaaaattc gaccagaacc ttaaagaatt atgttttagg tcttccttat 420

tgttcaattc atgaggctcc gagcttctgt ttgttaagat caaaggaatg aaaggaaaag 480

tactgaatgc aacagtacaa cgcaggacac aca 513

<210> 30734

<211> 289

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h07d1

<400> 30734

aggaaaaacg gatgatagta gtattgatcc aatgggcctt tttaaagtca atttttcccg 60
tgcttcaa at tggtgcactt ccaaaatgca tttgcttgca aatgacttta ggaacggaat 120
cgaacattgc ggggttcatt agacacaaat tgtgcgttaa aaccttcact ccttctatca 180
gttacaagtt gtattctttt ggtaattcaa gcctccaaag agttgaaacc ctggatggta 240
ttggcttgtc aatatgggta ctggtttcca tgctaaactt catttgaca 289

<210> 30735

<211> 435

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h09d1

<400> 30735

catcatataa aatatatatg ttctgaaaga acacatacaa gtacacaaaa aaaaggggga 60
aattcataaa aaaatacaga aaaaaaaaaa cagaattgag taagaggga ggaacatag 120
agaaaatttt agcaatcaga taataagaag ccagtagtag tgcaaaagtc ccttgccaag 180
agtgttgga ccccttttag ttaagcaggt accttctccc ccttgagtgg cttcaccact 240
ttccatgtga agtcagggtc atctttgcca aagtgtccat atgcagcagt cttcaagaac 300
ctgccatttt cacccttttt gagatcaagg ttgatggaga tcatgccagg cctgaagtca 360
aaactctcct tcacaatgct gaggatttcc ttgtcaggga tctttccagt gccataagt 420
ttaacaaaca cagac 435

<210> 30736

<211> 530

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400057h10d1

<400> 30736

aacttctcga aggaacaac aaagtaagaa actttcgaca ataaacatag ttgcatcaa 60

atatcagacc ctcatagcaa agataaaaca ctccactcca cactggacaa ccttattcaa 120
 cacaccacac accttaaata gtttcaaaaa actcaatact aatgacacag accacaccac 180
 tggagatagt ttgaaagcag caagggaaaa agcactctc cacaaaacaa ggttgctaaa 240
 agtaatcttt ggcatgcata tcatatcttc ttaacaataa aacataactc tcttaacggt 300
 ctctttgagt gcaggcaatg gtctcacagc agcattagca ccagggtgcc gggtgctacg 360
 ccctacacca ccaccaccgt cgacacccat cccacggcct gcaacagcac cacttgctcat 420
 agagccacta tccgaagtct cgggttccat gtaaaacctt gcacggaatg cagtcagggtg 480
 agcatagtat gcaagaagca caattgaaac agatcgggtg caccgagcat 530

<210> 30737
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400057h11d1
 <400> 30737

aaaaatgccc ataaaattgg ggttaaaaaat ttcccgttgc aaagggacta ccatttacat 60
 tggtccggcc taaaaatttc agaatttaat agctccccta ttagtttttc tagcttcttt 120
 gattggaagg ggggtttaac tcccatgggg tttccataaa cagcacaagg gtcttttccc 180
 aaaagaggat tggcaatata ccaaccttcc ggggtaaagg gaccatttga ctttttaaaa 240
 agttccttat caattttggt gaaaactggg tcacctcgg gaaacttttg agcaaaaggg 300
 gcccccttg ggaccatggt atcaaaaagc cccaattttt aagaagactt ggatgctgtt 360
 ttgggggggt gtccccctt t 381

<210> 30738
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a01d1
 <400> 30738

gagagaacat tttttttgtt tcatcatata aaatatatat gttctgaaag aacacatata 60
 agtacacaaa aaaaaggggg aaattcataa aaaaatacag aaaaaaaaaa acagaattga 120

gtaagagggga aggaaacata gagaaaattt tagcaatcag ataataagaa gccagtagta 180
 gtgcaaaagt cccttgccaa gagtgttgga acccctttta gttaagcagg taccttctcc 240
 cccttgagtg gcttcaccac ttcccatgtg aagtcagggg catctttgcc aaagtgtcca 300
 tatgcagcag tcttcaagaa cctgccattt ccacccctct tgagatcaag gttgatggag 360
 atcatgccag gcttgaagtc aaaactctcc ttcacaatgc tgaggatttc cttgtcaggg 420
 atcttgccag ggccataagt gtgaacaaac acagacaagg gctcatgcac accaatggca 480
 taggaaactt gcacaattgc cctcctagca agtgcatttg caacaatgct ctttgcagct 540
 tgcctacaa tgtaggcacc acttctat 568

<210> 30739
 <211> 415
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058a03d1

<400> 30739

aaaaaaaaa ccctcctccc cagggagggg cttgttttgt tttttgcccc caaagctccg 60
 ggaaaaaaag gggatttttt tccctttgga aaccagggg cctggggggg catccatcag 120
 ggaaacctgg gaactggttg tttggggatt gatttcccc cccctttttt aaccaacca 180
 agtgtttatt ttcaccccaa ccccgggggc agaaaaaac cccctttttg ggaaaccga 240
 aagtgggaaa ccccccttt tggggggggg ggccccttcc cccccccag gggtttccaa 300
 agggggacca aggacctccc ctggggccaa agggggggac ccttggggcc ctttttcccc 360
 cggggggaac acccctttcc ccagagagga gtggggggccc aaacttcttt ttaaa 415

<210> 30740
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058a04d1

<400> 30740

gaataaaaga tgacataaca gtcagggtgc ttccaatc cttttttgtt tcaatcacia 60
 gtcacaaaat atttttcacg tggaataagg gaaataatag aacagctctg gaaaaaaat 120

atgataaatc ctaaaattac agaattctat aggggttgaa aagtggcaca ttacagcagg 180
 ggtgcatcag caaagacctc agccagcata ccatcatcac taccttcctt ggcaagcagt 240
 tctgcttctt tctcttcctc attggaaaag tctcgtcttt caagcttggc atgagctgca 300
 atatacacca ctttcagagc tctttccaag gaaactctgg agtgcttatt tgcagaaatc 360
 ttctgatga aagaacaatt actcttaaact ccacttgagg ttccatgcag aaaaatgagc 420
 ctactgcaa gcttccaag ggatttaaac tcgctgaggc aagtttgcca aacaagtcta 480
 ctgctgagtg gatttgcaac ct 502

<210> 30741
 <211> 589
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a05d1
 <400> 30741

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 aagaaaaaaa tgggcaacca ggcataacag cctctataca aataacatta tagtagtaat 120
 tataacacaa atatatgacg gctgaaattc aatattcgtt gtcttaatta tcttctgaca 180
 ctctaataat atgaatccac agtattcatt cattatccat tgtccttgta acttctctct 240
 tcttgataaa tttctaccct tctatgctgg aatggctttg aaaatgtcat cgaaactgtt 300
 ctggtttgca aaaatatcca gaagagacag tgcctcaggc aactcagtt caagacggaa 360
 cttagggcca tcataatggt gaagaattgg tctaaaggaa tctttctcta gtggctcaca 420
 aactttccta gtaatcactt gaacctgagc agggaaacga gattcaccag ggcacttctt 480
 gtccttccca agccgttgga tcaatattgg atcctccaaa acttgcagcc tcaaagatac 540
 catggagttt gtgagtggag taattggtcc acaaaaatgg ccaaccct 589

<210> 30742
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a06d1
 <400> 30742

ccaatgtaaa gctttgtact ttaaattaaa ttaaacaatag tacatctcaa cattgtttag 60
 ctcaaaatca gtttttttaa aaattcaa atggcactgag atatctttta ttttgagcct 120
 gttaataata atttataagc caccaaacag ctatcatatt accactctat aagatagaac 180
 tccaagttct catgatcaag gaaaactgaa aacagactca agcaaaatca acacagatta 240
 acaccatcaa ccatcacaca cacacaagta tagcttggtg tcctaaactc gtaatcacia 300
 atgccctcag agaaaaata tttagtcttc tttccccaac agagtggagaa ggaacttctt 360
 gtagtccctt gagatttcct tggcaatagc atgctcaaga agaacgctgt ttctcttgta 420
 gtaaacctct gagattatct ttaggtcctt ctgggccccg ctcacaacca 470

<210> 30743
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058a08d1
 <400> 30743

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 tctccagttg gggggcaata tttggtacc tataatggct tgggtacttt ctctacaaag 120
 gtggctctct ctttacaaca ttagggtaac aaaggttata tatagcaagg attaagacc 180
 atctttgaga ctcaaccgaa cggagaagga actggtcctg ctctgctag tgcactgat 240
 ctcttgatgc ttccattcc acagacgatg catccaggcg cagtcacggc tgaaaatttg 300
 gctccacaga gatcaciaaac attatatccg atggttgaca gcctgcttaa ggtggcagaa 360
 cagaattgag agggatcttc caaaggatca atggacttgt tagtcaaacc cctctgaaca 420
 cacaggtcaa tca 433

<210> 30744
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058b01d1
 <400> 30744

agaccaagaa ctgcattgca tcatcaattt cttacctaaa tcatacgaaa gttttgcttg 60

aatatgttgt tctacagcta tgttcgctct acagctacat atatgaatgt atattcttac 120
 acatatgacc ttacactttt ttatctagac tgtaaaaaat aaattgaata tatagttttt 180
 gagagaaaaa gaaaaatatg tacaggtaca acagaaatta ggaatgcttc attcatcttt 240
 cattgcaagc tcatgcatct ttttctgccc gatttccaca agtagagtta agagagcctc 300
 acagacctga aatgcatctc cttcagaaag gtcatcattt agtgatgaat aaaccatcca 360
 tgcattggtcc aattttcggt taggtcgcac cacaacggat ccgggaactt ctgcatctcg 420
 gcatgtgaca agcccgctcac ttttctctcc atacctcacc tgcagcaact gtgcacaagc 480
 agccatagca gcaccaaggg gcatcaccac aggaagtttt ctagactcac cg 532

<210> 30745
 <211> 567
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058b02d1
 <400> 30745

gattcacaat cctagcattc attcattccc aatcaaaaat cactttatca tacatcaaaa 60
 tggcccaaac caatagtcaa gaaaagaaac aataaatata gtaccccatg taattcatct 120
 actttcaaaa caacctattg atagttgcaa catagttggg atatcaataa atgaaggcaa 180
 gtcagccaga aaataaaata gatcacgaaa tctaacacaa gatagatata ccagtatagt 240
 atagaaaaat agtactacat tgtagccaaa ttgtgtgtgt gtgtgtttgc actctacaca 300
 ttaaaaagaa ccttaatgag aagctggttg caaagaagtt ctagtagagt gctcaaaagc 360
 attggcaagg ccttgcaaca ttctcaaaat ctcaattgtg tcttccaaat aatactttgc 420
 cttgctagga ttctggccaa cagtgcattg aaacacttca gcaactggag atagggttgc 480
 ctttgcatc atgattaccc caaacatgtc ctctgtgat ctgtcatctc caatgcatag 540
 aacaaaagct ggaaacactc ccttttg 567

<210> 30746
 <211> 565
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058b03d1

<400> 30746

cataaaatca gatttcatat attataggat catctgtaac cccaactaca ccaccaagag 60
 gacaaagaac ttcacaaaac taaccctaaa accactctac ccaccacatt ctgacttgct 120
 accccctctc ttagccgtag cctttttcgc tggagacttt acactctttg gtttcacact 180
 cttcactggc gctttcttag caggcgctac tttcttcgct gccggcttcg cagcaggagc 240
 tgctttcttc cctggtgaag tccgtgtcga cgctcctgaa gccttggcgg gcttcgcttt 300
 gggctttgcc gcgggcttgg cagcagcagc ctttgtttta gcagcgggct tgggcttggg 360
 cttggcagct ggcttagtcc ctttgggctt ggcggcagca ggcttgggct tggaagcagc 420
 agcagcagca gcctttggtt taagggcggg cttgggcttg gctggaactt tggctttagg 480
 cttagcagct gccttgggct tagctggtgc ctttgactta attgccttag tgtccttggc 540
 tatagcagcg ggcttgggct taagc 565

<210> 30747

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058b04d1

<400> 30747

gggagcaatc tggggatatc aaatttcgta catcgggaca tacatcttac attaactatt 60
 ttttatatat aaaacaatgc tgccgatata acttacaaaa catatacact tccaagtta 120
 aaaaaaaaaa aaaaacaagc aaatcccata aaaatgtcag gccggatgaa aagaaaatta 180
 ggccatcttt tctgcaaagg atccatttgt taagacaatg aaggctatct tcctttcagc 240
 tggagggcag gaaaatcctg ggaagctcat gattggaccg atttgtcccc atttgtctgc 300
 tcagggattt taggaggagc tgtttttggt tccttatcca atttggggcg ttcttttggt 360
 ttgctagtgc cattgctggt gcgtccaatg accacgtcct tgttttttgg agggacaagg 420
 cttccatggt ttgg 434

<210> 30748

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058b07d1

<400> 30748

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ataggcaaaa atcccgggaa tcattcttat cccgaggaaa atcccgggtg gtttttgcct 120
ctcatcaata agccacccaa tcaaaaaaaaa agcttgactc aatcaaaagg ccttaccccc 180
caaatttttt tttgaaaaaa agaacttgaa tagggcgggg gtgggcccac cacaacccaa 240
cccacttttg aggcttactt taacaaaccc cattcatttg ggcattggtc tttttcctct 300
ccaacccaaa ctttttccaa agggggggga tgctcctttg gggctccata gactctttt 360
tagcaaccac taccttgcca tttttttcag cagggactgg cacactaggg ctgcttttga 420
ccctagcagg aaggaataa agcttatgca aaaccttt 458

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<210> 30749

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058b09d1

<400> 30749

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tttctcataa cagactccat tcaactctatg aacgaaccac atgatactga tatttttagaa 120
aggaaaggaa ggattcaaag gggaagggtt tcgaaatgat atccataaca ccgcaatccc 180
ctaaacgaca tgggaaagag aaaaaaaagg caaaaacgac accgaaagaa acgacacatt 240
cagagccacc gacacagaga taaaagccta gggtaacgt cgtctatcta agagagttga 300
ccacagtcgg cgacgacgac aggcttggcg gtctgcccgg agctggatcc gaccttctgt 360
atcttcttga cgacgtgcat cccctcgacg acctgtgcga acacgacgtg ctttccgtcg 420
agccactccg tcttcgttgt gcagatgaag aactgagat 459

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<210> 30750

<211> 431

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058c01d1

<400> 30750

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aactcatgta accctgccaa taaaccatca cccctaaact ccagcaccag cagcttgctc 120
acttcaatac acaactccca gaatttctca tgtcaccacg tggcaagcac gctgatgtgg 180
agccaagtgt tgtgcttaca cgtaggtgta ccttgcataa tacaaccaa gacttaagca 240
tcatataata atattaataa agtaaaactaa agaaataaaa agaaaaaaaa aaaagaggct 300
tttcaacatg gcatggcaaa tggtagacct gatccccaca actaggacca tgttttaaacc 360
tggttttttc actcacactt gccatagggc taagcttcaa gtcttctcaa cagggaacct 420
ttactggggg t 431

<210> 30751

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058c04d1

<400> 30751

aaccatgctt taaaacccat ccatcgctt aaagaatcaa taaagaacgc caaactaaaa 60
gatccagggt tagttcagat gaggagattt taagaacacc ataaaaatga cattttgaac 120
aataataaat aattacaaag aaattggcga tgctaataga tcaaaacagc tttaaacct 180
ctggttttct tgggtattct caactaaacc ttccactatc atatggacta agatgccctt 240
ggatagttgt ctcgtttctc aattcggtta acggcaatcc attgaatcaa aggagtctgc 300
aaaccctgca ggttttagagg agatgcttga ttgggtttgt gagatggaaa tgtcattaaa 360
tattgaggaa gtgccttcgt tggcttgcca ccttcgtaga gcttgaggaa ggctcatatg 420
aaggtcaccg ccagaagccg cttcctcttt ttcatcatg 459

<210> 30752

<211> 543

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058c05d1

<400> 30752

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atcatgaaca aaactttctga gctacggcgt gcagctccta caataatata gtctgaaaat 120
gagaaatgtc caacaggaac acaggtgcac aaaaacccaa ccctctgcgg ctctgtccca 180
aagacaatga tgtgaaccac caaacaatt tttttactgg agaaaagaat aaggtaggtg 240
ctctcttcat tacactttca gcgtttgaca aaattgctac aaaagaagcc tccaagcaat 300
agaaggcata gagttcttct ggatgtcata tcctaaatgg agggttccct gagcaagatt 360
gggtcaaaactt tgccctttta aacttcgatt tctcgacagc aattttcttg aaaagattag 420
gcccacaaaa gctatgcttg aagcccccta tcttcttget cttgccttta tcatattctt 480
gatcccatc atccccaaca tatccaatgc tgacagtttt gtcattcttt gacttcaaatt 540
gct 543

<210> 30753
<211> 403
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058c06d1

<400> 30753

aaaaaaaaac ggtcaaaaaa accaaaacct cccaaacaat attggtaagc cccaccctaa 60
gggggggggc ccctttttgc cattttttta aatgcccaacc ccaaagggtta ggggtgaaga 120
gggggtattgg ctaaaaacca ccggaaccct ttgggtttac aaaaaagggg aaaaaaaaaa 180
ttcccggccc ctcccgggca ttggggggag aaacccctt tcccaaaca agggggggcc 240
cttggttagc caagggggga atataacca ccccaacccc aaaaaggggg ggctgatca 300
aaagccctgg ggggaatatt tgaggaacct ggccccccc cgaaaacca aacttttatt 360
ttgttcgggg gaaagggggg gttttaccct ccaaagcca agt 403

<210> 30754
<211> 65
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058c07d1

<400> 30754

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gactc 65

<210> 30755
<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058c08d1

<400> 30755

aacaaaataa agtaggaaac ttacaccaa tatatcaaaa acaacaaaat tgagctaacc 60
agagccacat aagaaagtac ctgcagttcc agccattttg actatatata taacaaacag 120
aacctgaaat atatacatgc aatgtactaa gatatgtaaa acctattaga taacatgtgt 180
gcatgatatg aacatgtttg agttcatgtg gaaacatgca gctttcaagg atgtgtattt 240
gcaatgtcac gtgagagcgg ggaagcagaa gcagtggcaa ttctaccatg ggtaaaatga 300
tcagcacttt ttctacgatt ttgtttcaca tgggggacct ggaactgctc caaatgcgtg 360
gcaacctcgg ccattggttg tctcaacttt gattctattg tcaggcatcg caaagaggag 420
ggtagctacc ttacatgcct catctaattc atattggc 458

<210> 30756
<211> 426
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058d02d1

<400> 30756

aaggaagatc cattctaatt aattttaagc taggtaatta catgaaagta aagagtaaac 60
aaaagataaa ataaaaaggt ttggcattaa tatgtactta aggagccctt cacaaattaa 120
ttacaaagta atcaatgttc tcttctgttt ccttatacaa tactacgtat ataaattaat 180
tcagaacact gcataccttg gtccttgtgc caaataatga ttttctctat attgttgatc 240
caagaatgct ccataacaca attgaagatc atcaacacca tttgcagctt gatattccat 300
ttctacatgt tgcacatcc catatccata agggatccat gcattcatct tatcaaaggg 360
caaggaagag atcaattcca ggaacccaa tgatcagggg caccgactga cgcggggcga 420

gtggattggg ttggatctta tactgtcgca tgtaattttt cgttgacagt actgctcttt 480
tgggctgcat 490

<210> 30759
<211> 425
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058e01d1

<400> 30759

gaatggaaaa aggcatactt ttaaattgaa ttgatggggg ggaaaacccc aatttaaaga 60
tttccaatca tccccaatTT tgcaacaacc aaaagaattt taaaaaaaaa agactttttt 120
tttttacttt ttttacccaa aacctaaagca aaatttaaaa acaaacgacc ctttttttta 180
gactctttta atccaaaagc tgatcacaat caaaatcaat ggcgttattt atgaaagctc 240
cataagactt caaacgacca aaagccgggt tctccattga tgttctcttc aaacatgaat 300
ttactcttca atagcaaggg gcacaaactc agccaatttg cggtgcttga gagcataaaa 360
catctggagg gaacctttgc tctcacgggg ttcaagattg gtcacgtgct tccagaagcc 420
ataca 425

<210> 30760
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058e03d1

<400> 30760

acataacaga ttggccacaa atataattgt ttttccacta tgcccaagtc aatcaacaga 60
tagaaaataa acagaagact aaattaagac gaaaaactca aacttaaaat ccaactatat 120
ttttcagtat tttccacctt gcttctaccc ctgttgaaag taacaaagta aagctgctct 180
gcaacaaagt agatctaaat ttacaagaca ggaaacgacc aacaaagtaa aataaaagaa 240
agaaaaaaga aaaaaggcaa agagaaggat aaaccggaac aaaaaccaa agatataagc 300
atcttaggca gaaaccctaa aacccaaaaa accctaggag taaagcctgt taggagctaa 360
ccactgtaaa caaaacccaa tgagaagggg ttggtgctag cattctatga agtaactccg 420

cccagccaat ctcaatatac agatctttat cttcactagg caaccaatct ctatcttcag 480
actgcaagag aagagggcag aaagataaaa tca 513

<210> 30761
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058e04d1

<400> 30761

cctcaacatg tttctgtttt ctagtcaatg gcagaaaacg atgtaccgat gctatggttc 60
caaaggtaaa agatatagaa tattaacatt ggcacttctt caaagattgc agaatacaaa 120
atcacacaaa aggaccaaca caggaaacct cagttggaga agatgaattt gaattttgac 180
tagtccgtag gcataaattc atccgggtga tccaatagat agttggctgc tagatcctcg 240
tttttattgc atgcaaagaa cgctccacc acaatatctc gatgaaatcc catagcttca 300
agccgttgaa tggcctcatt ctcttcaggg gtgatagtga cagtcccaga aatcatggaa 360
tccaactgac tctgtaaatt ctcgccccct tcagggttcat tcataaggtc aagtatgtcc 420
tcttgatgat cttggatgat ctgcattagc tgaggatttt gttgtcccag ttcctgaatc 480
ataggctgca aaatttgggg gttttctcgc atcggtttt ttaatgcttg gaact 535

<210> 30762
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058e06d1

<400> 30762

gaaggtcact atcataataa taataataat tgggaacaat gtatgatttc agttgtccaa 60
gaaaaatagc atcacaccta tccaacaaca ggaattgttt ctgattgctt gtgggtcatga 120
tctgtctcct gttgtttttg accaactagt tgagaggaag ataacgacaa ttgtgagaga 180
ctacagcaat tatcctcccg ctctgctgc ttctgagatt ctttctcgta caaggcatac 240
tcttcaggct tatcccatct gctttcacaa gttatacagt tgtagtagta cttatcgcca 300
tcggggcagt agtggttact ccagtcacac tctggaaaat cttcatcttg gggacttgta 360

ggcatatccg gcagggtaat gccagtaact gtactagggg tgctttcggg ctgagaaggc 420
 agctgggaac gaacattaaa ctgagaaaac tattgtagtc tgtgaactaa gctgctgctc 480
 tatattttga actgatgaat ctgctggatg tga 513

<210> 30763
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058e07d1
 <400> 30763

attgaacgga aatttacact tatttttagtc taataaacca tagaatgccc caaccatggg 60
 tgggtttttta actaagacag gaacttgaaa tgattcaaac tgcattgacta cccagacctg 120
 gagtgggata acagcccaca cattttattta taccaagatt acattatttg gatatttgga 180
 ttgccaaaca catgggaatt acattttcat acatattcct taatggccac aggggcagtc 240
 cctgcaaggg cagttagggc cacacttgca cttcccatca tgctcagggtg gtggaacatc 300
 catgacaaca ggctcgatgt aacttttttc agtctttaca ataacaccat agctgtttcc 360
 cttggggcaa ctagtcttgt cagcgcaatc gcagttgccg catgtgttcc acatgtttgg 420
 ttttgaggaa aaaagccaaa cacaaggaat gaacctaatg ttttg 465

<210> 30764
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400058e08d1
 <400> 30764

ggggccggga ttcatataat ttaaccttat aaataataat aacaataata agatgggctt 60
 tactttccct tttcaccatt atcaaccatt tttcacttgc catataacaa gagggtccta 120
 aacagaatca caaataatcc tacatcgggg ctgggatggg aaagcactat gaaactgaat 180
 cccaagggt aatacaatat aacatttatt taccattttg acagataccc agcactttta 240
 gcacttgag catttggaat atcaatccgg tggtgcaggc ctaaaaatag tcttttttca 300
 catttattca taccctccc acataatcat tcagcaacgt gatgcatggc tccacttaaa 360

aagggcaaga atatgcatta caaagtcctg ggttggcgct tttatagggg aacaaggcaa 420
cagggcgagt 430

<210> 30765
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058f01d1

<400> 30765

aaaagttaaa acaacttttag accgcaaaat tcaaaatcca gaagtggcta gtttttttgg 60
tcacccaaaag cctcgtacaa aatcttaaca aatgaaaaca agtggctact cgccacaatg 120
ataaggcaaa tgtaacaaaa aaaaaaaaaac cagtaatata tgatatgtga aaaacaggta 180
accgatccta ataaatgctt ttaattgaag tttgcatcca atgtagatat gaagagggtat 240
atcgagacct cttttgcacc atccaaaaaa tttgccataa acagcagaag aattccttgt 300
aatggggggg atcatttcac agtcaagatc ttgatgatag atgcagtgcc cacacgatgc 360
agtgccacca ctgaatcccc gttgtggcag agacccttgg acttggcatg ttgcatggcg 420
aattctattg cttcttctgt tgtttcagca tgagaagctc tagcagaagc tgcactcaac 480
acggga 486

<210> 30766
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058f02d1

<400> 30766

gggaaccgga ttttattatt ctttaaaaaa ccctcccca aaaagaatgc taaggaatga 60
tggtccaaag cgtaccgttt gggacccaaa cgaaatccta tacactacgg attcggatac 120
ccgggtgcgt attaaaaacg ccccccttgg tcaaaactcc caaacaacca aaaaaaaaaa 180
accggccta caaaaactta cacgtgcaat ccaaaccag cggggaacaa aggggggggag 240
agcccccg acgtgggtcc cacgtgccga acaccaccat tggtgggggt ggtttcacgc 300
gaagaggttg caggagtccc agggaaatta gggttgaac ccgagagaac ccgaaaccct 360

tgtatatcat cttcgggtgag cccacaccttt ctcgtccttg cggaattgg aggggtcata 420
atagcatttt caacc 435

<210> 30767
<211> 516
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058f07d1

<400> 30767

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ctctcaaata agtcggcagg aacaaagata gagagattca acgatcttca aatttcacat 120
ttgccagaaa tatataacag aaaagagggg tatgggatat gagttaagtt ttgatcacat 180
tcaactacac tatcccaaac cggtactctt aagactttga acttcacttg tactctagga 240
tcatgttggt ctcaggagct aatccaacac aagccctcag gatgttttcc agcatagctc 300
gctgctttga caacgcattc accactgggtg taccgggtgg aaccagaggg gccttgggtca 360
ggtaactaag gatgggtcga actgggtgga atgagtggaa ttttcctca ttttcagctt 420
taaactcgat tcgagtgtg agctcagcaa gaaggaccaa gtccaagata ataggagcag 480
ctaacagtga atcctcacat gtgttggtgca acacaa 516

<210> 30768
<211> 502
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400058f08d1

<400> 30768

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aatttggtcg acgtaggcaa agcatacatc caaattcaga ggttaaggga attcaaaatt 120
aaaaatatat tgctaattcc taaacaactt gttgctacaa aagactgatt attggggagg 180
gggggaagat cgttggcttt tccaccctcc tgctgtcttg tccccatta tggcaaatac 240
ttttccttct tggctttgcc tctccaagca ttgggacgat gtctctcatg gggggctctt 300
ccttgggaag ctttgcagta catagaagtg caatccggag cacaagcagc atttcttctt 360

ggacatgctt gcactgacta gctatagcag gatccaatgc ttctaacaag gctttggtgc 420
 tttttcttctt ccttatccat tgcactatgt caattgattc ttcaaataaa ggggggctaaa 480
 ggcatttttct cagttaggag ct 502

<210> 30769
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058g02d1

<400> 30769

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 aaaccccccta aaaggaacca accccggggg gttattatgc catattgatt aagggggggcc 120
 cgaacaaccc gaacaggaac gggaccccat tttgggtccc cccatggacc ccatgaccct 180
 taggttgaac ttttttaatt ggccttttcta tataaacctt tttttcaagg ggggggggggt 240
 tttttcccggt aattttttca aacctttgct ttaaagggggt aaaaaccctg ggctgggccc 300
 ttccaggagc catttggttt ttcccccccc tggctggggg ctattttttt tttttatgtt 360
 taaaatcctg ccccccatcc tttggtttga gttgttttta cccccctttt ttaactacc 420
 ccaaaaaaaaa atccccaaca gaaactctaa ccctgggttt cctttgtacc ccccc 475

<210> 30770
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058g04d1

<400> 30770

aaataattca ttcttttcac tcaatacaat aaatacatat aaatgccaac aaaggtttct 60
 attattacat ttgaggaaga aaaaatcagg gaaagagagt actatttaac aaaaacttca 120
 actataacag cagaatggca aaaaattaca aaggaggctg aatgcatgtt gctggcctca 180
 acacttctga agcacatttg tacacaaggt agcttctctg tttattcaaa tccgtcagat 240
 cctctcagaa aaccccgatt ttctaattga ccaaataacc ctgtcaattc aattcctctc 300
 atctaaaatc atgaccatca ttctcgtgaa gttttgttct gcttgatcaa ggcataatgca 360

tcactgtata tagccacaac gtttgagaag actgcgagga ctatcataat gacacacaaa 420

atcttgctcg atttagttgc aatgtttag cggtccctaa gagtgatggc agctggaaaa 480

<210> 30771

<211> 503

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058h01d1

<400> 30771

atatggccat atcaacttca ctttatatga atgatacacg tgatatattc acccaaagaa 60

aaaagaaaga aagagaaaat agacaatata agtgtctaatt tcacatcact aaaatctgtc 120

cacccgctag taggcccagag acattaacac tagccagcgg tgacaacaat ctgaactaat 180

tgataattac atatttacia catttgacac caacacgcgt acgttgctac ctatctccag 240

gagttgaaga tcacgtaatt aaattgagac aagaagagta taatccatgt tgtgtatgta 300

acagtacaag agaagagtgg tggagtttga agttaattaa gaattggcta gcttatttat 360

caaagccaag gcattgctag tcaattgagc tacctgaata acgagtcttc tgacggtgct 420

tttaatatca gtggcagcag tgatctcttg gaagccatcg ttgcaggtgg tttcatccgt 480

caaagcggca ctcacccatg ttt 503

<210> 30772

<211> 562

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400058h03d1

<400> 30772

atgagagtac gatatggttt tatgtgcac acaagttcta tttgcacttt tggagggatc 60

aacacaacta cacacaagat aacacgaaca aactgctact aaatgcagca ttggcacatc 120

taaaatgcac tgccaagatt catctagtgc atccatgatg caatgggtga cctcactttt 180

tcccatgtta gcataatccc actgtccttg tagcaaaccg aatgcttagg ctttgcattc 240

acttctctta ggtatgatgc ttgggtgcaa ctttgggggtg taacagtgcc ttataagcc 300

ttacaaagat agcttaagaa gttctcataa tcctcataga gtggttctcc atccacaact 360

acccaaggaa cataacttggtg aggagggtcc agagcacttg ttccagctgc atattgtagc 420
 tccaactggt ttccatgttc actattataa cactgattaa taggttccga atcaagatcc 480
 agtttctcaa aacaagattt cccattcctc acgcttactc tgaaacacca gatcctcaac 540
 acagtagatg aaaggaaaat gt 562

<210> 30773
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058h04d1

<400> 30773

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 accaaaagcc tcgtacaaaa tcttaacaaa tgaaaacaag tggctactcg ccacaatgat 120
 aaggcaaagt taacaaaaaa aaaaaaaccc gtaatatatg atatgtgaaa aacaggtaac 180
 cgatcctaataaatgcttat aattgaagtt tgcattccaat gtagatatga agagggatat 240
 cgcgacctct tttgggcctt gcattatatg agacctagac aggaaactag ttccttgata 300
 tgggggggat cattttacag gcaagatgct tcatgatgga tgcattgccc acacgatgca 360
 gtgccaccac tgaatgcccg ttgaggcaga gacccttgga cttggcatgt cgcatggcga 420
 attctattgc ttcttctggt gtttcagcat gagaagctct agcagaagct gactcaaca 480
 cggggaacca accc 494

<210> 30774
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058h07d1

<400> 30774

gaaagaaaaa gtaaagtcatt tgcaattcat ttgatctcac atccagcact agccacctag 60
 tgcacattgc ctgaatatta cagcagggtta tctgaaaatg agacacattg ccaaaaaaa 120
 gtcagagcta ccgactagaa gaaaagggtt acacgtataa atcccagtca gtgtcggatg 180
 gtgagctcag ctctaagggtg aagtacacca ttgataaagt aaagactatc ttcagccatg 240

aacgttgtcc atggaattgc aaacaagttt ctatatccga cggcctttcc ccagtgaaat 300
 acataattgc ctttgtactt gctaacaaat tcctctgttg gccttgacct agcagcaaac 360
 tcatagtcaa cggcaaagct aactgagccc ttttctgca ttcctaaaaa caggccaaag 420
 caatggaaag agctctgttg gtccatgttg caatgtgctg ataagaaaaa cccttgcca 480
 cctaaatgga atgcctgtga atatact 507

<210> 30775
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400058h08d1

<400> 30775
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 aatcaagatt caaatcatgc aaaagaaaaa aagtaaaagg cttttttttt ttcctttttt 120
 ttctctctct ggctcttata gaaagcttaa tcacaaaatt aaaatcatca gggacatatt 180
 atttatagaa ctcaagtaag acaaactcca aatgagaaac aaaaagccgg ttcctccatt 240
 tttttatcca actcttcata ctcaagttac tcaacagcaa ggggcacaga ctcgccaat 300
 ttgcggtact tgagagcata gaacatctcg agatagcggc ggctctcacg gcggtcaagg 360
 ttagacacat gttccagaa gccatagaca ccagtgagag tgagaagcct ttgtgagtaa 420
 atttgccatg tgtacttctc ttcaataccc tggagaccag cctttgagat tgtttcccag 480
 ggggttgggt caagc 495

<210> 30776
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a04d1

<400> 30776
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 gaaaccccg tgaatgttta aaacaaacgt agcttttttg gaaatagaat gggataacgt 120
 tctaagtaca ataattttat aggacacggc caaatcattt tatgggggtg aaattgtagg 180

aattgttttg ggaattggaa aatgtaaaaa accgggcttt atcaaatttg ggggaagttt 240
 aggaataggt tttttgaaaa aaggctctgg cttaaaaaat gactttggct taagggatag 300
 gtttaacaat tggaaatggg ttaggtatgg gtttaaaaaac cggaatagga atagggttaa 360
 caataggaac aggctttggg attggcttaa aaaaaggaat tgggtgttgg actggcttaa 420
 aaattgggat tgg 433

<210> 30777
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a05d1

<400> 30777
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 aaactagaaa cctataatgt acaaatacacc ctcaaagccc aaaatgcagc aaatgaagaa 120
 ataacctgaa ttcaagcaca cctatagtcc catcaattca acaattctca tcaaagatac 180
 atataaacca cacagtttca acctcctcat gttcctctcc agaacatctg cttcctcaa 240
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 ttctgtcact tctgtggcca cctttgcctc ctgattgaac ttgtctcagt gtcttaggtg 360
 aatgcgaact aattttgcag ttagttgagg atggcagaga atgtcgccga gtatggttgt 420
 ttttttctact tccatcttgt ccaaatactcg gggatccttg tgccttcaac tctgcctttg 480
 cagattcagt tgctgccatt gtacttggtg gtgctggact attctgtata 530

<210> 30778
 <211> 539
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a06d1

<400> 30778
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 acagagtatt atactaataa taaaattcca aaatccagaa actagaaaaa acgaaatgta 120
 accctaagcc tcagccttct ggtaaacata ggtcaaacca cacttgccgc aatagtggcg 180

atcgaagtgg ttggccatga aagtcceggc gccgcactcg gcgttggggc attccttgcg 240
 gagcctctgg accttgccgg agtcgtcgac cttgtagaac tggaggaggg cgagcttgac 300
 tttcttgtgc ttgtgcttga tcttcttggg cttgggtgtag gtcttcttct tgcgcttctt 360
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 ggcgaggggtg cgcccgctct ccagctgctt accggcggaag atcaagcgct gctgggtccgg 480
 cgggatgccc tacttgtcct ggatcttcgc cttcacattg tcgattgtgt ccgatgact 539

<210> 30779
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a08d1

<400> 30779

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 tactcaagtc ctccccctgc accagcccaa ccaattaatg ttcccggtt atgcttgata 120
 atattgaaac tagtagctag agcgttgact ggtatccagt ttggggccaa tctttttgtt 180
 aataaaaaac acatcccttg gctttaaatt ccaattaaaa atatttttaa taataattta 240
 tagggggggc ctgtcttttg tcatggccct agacggtagg gaccctttgc cctgtaggga 300
 ccatcccttt agagggtggc cctttgggga tgccggccct ccctcccat aaatt 355

<210> 30780
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060a09d1

<400> 30780

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 ttttgcgaaa tcccatgcat atatgattta atgtaaagga taaatcacta acgaaaaagc 120
 taaaatacac tgctgtcact tctattcatt aataatcgat catgtatgtt ttattttacg 180
 ccacatgatg catttcctta tattagctta ccttccaacc aacgggtgta aaaatccaac 240
 gccttccgcy gcttatattc cggcacgggtg tgcccagctt ccttgattgt taggaagggtg 300

aggttgttct cgtacgcttg cgagtacca ccaacttga tatttgagtt ccatg 355

<210> 30781
<211> 336
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060a10d1

<400> 30781

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ccacaaaaaa cgggggggaa atatcccccc ttaaaaaggg gggggggcca caaaaaaaag 120
gggggggggg ggccccaaaa gggggcttcg gggccccccc ccccaaattt ttttttttgg 180
ggggggcccc ccccaaattg gggccccctt ccccgaaaaa cccctggggc tttgtgaaaa 240
attttctcgg cgcgccgggc caaatctcga gtttttcccc cgggggtgcg ggcggatatt 300
tttttttttt gggggcccca aaataaaata acgggc 336

<210> 30782
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060a11d1

<400> 30782

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gggagcaaaa gcctcttttc ccccccccc ataaaaaatt ggggggtaac cgcgggcaac 120
cgcggggggt tccccccca tctttaatcc ccccccccc ccccccggtt ggtcccttgg 180
tctgggccag ggggggcccc cccccaccag ggaaaaaccc ctcggggccc tgggggggtc 240
tggaaccccc ggaagggttc caggcccaaa accaaacttt tcctttacc cccccaaaa 300
gggacaaggg ccccttgggg gaaaaaaggg cgggccccgc cttttcgggg gcaaattttg 360
ccccacaaac tttgttttgg gggagggggg ccctcccccc cggggccaaa aaaaaaaagg 420
ggggacccaa cgcggggggg gg 442

<210> 30783
<211> 397
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b03d1

<400> 30783

gaaaaacatt acatttgatt tgaattagaa acgaaatgga tatatataac cagtacaatt 60
 caaggtaaca cagcttaaca ggaagaacaa tgtaaacttc actatctcat ttatctgccg 120
 taaatattca acagtgcaga tcactctctaa ttattccctc agaaagaaac aacttcaacc 180
 ataggcaaca gcaaatcatt gacttggtt aacttagtga acttcagaaa aatctttcaa 240
 aacaaacgca ggctaataat ggtttttggt ccattataaa ccaaactagc ttgcttgata 300
 gtgaactcag aaatcaagta aaatagcaag gggaaaaatc ctgaaacggg gccggttttg 360
 aagaaaaata gataacctcg acaggatttt tttctac 397

<210> 30784

<211> 532

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400060b04d1

<400> 30784

gaaagattgt gaaaattacc ttttctttcc tttcattttg tcctttcttg agacattctc 60
 cttttaaaag gacgtttttc aagcctgatt ttacagaac tatagtacac acttagttac 120
 actctactct ctccacact ttttctataa accgtggatc attattatca agtcgccact 180
 gataaaattc caccacatc aaattgctgg agatacagat acccgagtct aagcctattc 240
 caacctccat ctctatttta ccttcccgac ctgacctgac gcatttgaaa aaccaggcaa 300
 gctattttgc cagccttggc atgagcttcc acgtggcaca atctcttact atgttggtg 360
 ccaagcattt gtcttaacc aatgcaatct gcttcagcta ttcactctgt cacttgcgca 420
 accaacagcc acaggaatgc attgtgatga acaaatataa gggaagccat ttcatttgag 480
 atttctgtag tttctacaag acacgngca gtcacacaag ttaactggaa ac 532

<210> 30785

<211> 288

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b06d1

<400> 30785

gtgttcatat gcttatatcc ttaatggtgc tttactccca caaaacccaa tgggactgaa 60
 cggggatgac ctcaactta aaacggagcg aggtaatatt acccccccat aaaaaagct 120
 aaagaggggg ttggcttcaa gaaaacctaa cgggacatcc caaagaaaca ggggggaaca 180
 aatggggacc ggtggcaaaa aaataagggc cgggggaagg aacaaaattc cccggaagg 240
 taagggcccc ctttggcgaa aaaaaaaaaa acccccccg gcttgcta 288

<210> 30786

<211> 445

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b07d1

<400> 30786

gacagcaaaa aataactctg atgttttacc ataatcaaga aattcatata ttgtatgttg 60
 cttgctccca acgagtactc aaattaggag ggtttaaaaa atggtgcat cgacggcaat 120
 gaataaaaac ggcactttga tttgtaataa ccagttcagt tacatctgaa acagaatgct 180
 ctaatgacat tataacttgt aaattgttaa tatggatggg aatattctgc tctacaattc 240
 aagggctgca aaggttcttt aaatcctcct ccttagcata ccaatttggt attattttgg 300
 aaacatgagg ataaagatcc ttgtaggagt tctaattgt tccttctgca acgcctgtgg 360
 caagtgatat atctttgaga ggctttttat catcagaaag ctgagttatg atgtatataa 420
 ctgctgcagc aattgatatg ggact 445

<210> 30787

<211> 383

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060b08d1

<400> 30787

cgtcacagac acaacttcat taaaaacca aaacaaaaaa ataataataa ctgctcttaa 60
 gcaaggcaac tcttgcgtat aatatgcaa ggtctcagcc cgaatataaa cctttactcg 120

ataacatata attgccgatt cctcgagag gatgcaggaa ttttgaaaga tgaaatgata 180
 attgacagca aagaatgaaa actcttgctt gcattggata tgaaaaacta tacacaaatt 240
 tatggatgag aatggaagct gtccaaaaaa acaaaagggc cgagtcactc agtgtcgagc 300
 cgcaacttgt tgcttacata ctgggcagaa atttttttgt gcaaccatt gttttataca 360
 ctgaaagtga taactgggct cac 383

<210> 30788
 <211> 240
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060b09d1

<400> 30788

aacaagcgtc acccaattgc taacaacttt attcatatga taagatttgt caaatcaaaa 60
 catcattagc aaaataacca aaccatatgt gcaagctttg gctcctcttc aaagcaaatt 120
 caaaagaggt ttaaagaga aaccctaacc ctaatcctaa tagcacaaca caacaaagca 180
 attgatatat taaagattga ttcaatcgag ggccttgacg atctttatcc ccattgcttgt 240

<210> 30789
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c03d1

<400> 30789

cttcttatt tttcatcttt aaaccaaaca cttctcccg ggggggaaaa accccctct 60
 ttctttttcc tacgcaaaa aaaaccacgg ggaccccccc ccccccccc cctaccctat 120
 aacaaaaaaa ggccccgccc cctcccgac ccccccccc aaatcttata gggggagaac 180
 ccctcccccc ccccggtca ccacaacgaa aaggcccaaa aataaaattc taaaaacccc 240
 ccctatgggg ggggggccc ctttaaaaaa acccccccc cccctcggg gggggcggtt 300
 tatataagaa aggatatctt tcccacaccc caacaaacac acctttttta agaaaaaat 360
 ttggggcaaa aaaacacaaa aggggcccc caaaaatcc cccccaaaa aaaaaacaac 420
 atccccgcgc tcccacacac acccgggggg ggcgcccctc aacagaggcc ccccccaac 480

aggggggggg cccccccc

498

<210> 30790
<211> 375
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060c04d1

<400> 30790

caccatcctt aaagaacagt tatttcttta ttatattgaa tggcaaatat ttgccattg 60
cgttatccag aatcattgtc taaaagctac tactgagaac caacaaatca catcctcgag 120
atctgaagag gtataagagt ttcaagcatt tcatgcctaa cagaagctag agatagcttt 180
tccacgtggc ctagtttttc taaaagatag ctctcacaat tttctgcagc catgacccca 240
gctgagtaag ctccatgcac agatccctga ttgtccaagc ttacagcttc tccccaaaag 300
aatagattgc ccaaaggtgc acgaagcttg tcatacacat cgagtgggtt tccaactaaa 360
tcatacgagt aacat 375

<210> 30791
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060c05d1

<400> 30791

cgaaaaagtt catttatgct ttaaagtgtt ttgcttctta gcagaagacc ctctcactta 60
cataagctaa caaaaatttg aaaacaggaa gaatcaataa aactataaac ataggataaa 120
tttgcaaaag agaaaaaaaa atgaataaat tctatatagt agtaggaaag tagtttttgt 180
actgccagaa tctagaaatt agtgatttgt gatggttcgg gcacgaaaat tgaaacgcca 240
tagcaagatt ttggagcaat cttctggttg aattcccttt aatttagcct catcttctag 300
aactacttgc ttcacgaact tgattgaatt ctgagaagtg tcttgaacag aggaagtgcg 360
accccatctc tcagggtccc aaaggatgga gctattaaaa gcaaaacttg aaatatgaat 420
tgggggagtg attgtatcag tttcattgtt catattccta agatgccaac caatgacttg 480
tgatgaatca catacaggtc cttcga 506

<210> 30792
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c06d1

<400> 30792

agcaaagaag aatagaaaca ggtcaggaat tcatctccaa gctatgtaca atttatctaa 60
 atccaactag agctatgaat gacaatatga tccccctcat actgatataa cttagaatgg 120
 tgtcacacat gacaactgat acatttgctg caaagagatt agattattca ctattcagca 180
 cacttcattt ttgttgaggg ttcagcatag caatccctct taagttaact gcaacaatta 240
 aggataata ataataataa taaacaacta aactcataca ccacaaagct aatgcaattc 300
 gaatctacct taacctagtt atccctccct cggtcattca ctgccactat tattgatatg 360
 aatgctgttg ctattgctgg aggagccatg gtggttggtg ctaggggttac caccttt 417

<210> 30793
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c07d1

<400> 30793

gaaagcaagg ttttcacacc aaaggatctg attcattaaa agcaatagat tcttcacaac 60
 cacacaccac tcacttgaca tatatggaac acatacataa tccatatagc attacttagt 120
 ggtggggcat ttcttacttt tatttaatgc acaaacataa caagggcagg aaggaaaacc 180
 acaaaattaa aacgaagatc atatagctgt taataataac aacaacacat gcaacataaa 240
 aaccacatgc agttgtggta gtggcatctt cttcagattg gaaacgcctc aatgatggaa 300
 gggagagcgt tgatcttgat gatgttgtaa cgcgcgaaac cggtttcctt gaacagccac 360
 ttccagttct cttcggctct ctctttgcca cggcggttgt gagcgagaag catcatgtcg 420
 aatgcgatgc caacgtctgt gaagagttcg ttgccttcgg gtcgagaacg tgatccacat 480
 tatgac 486

<210> 30794
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c08d1

<400> 30794

acttctaaag gggaaaatcc aaaaggctat ttctactcta aaaatgcaaa attttatatt 60
 tatgaaagaa taatacatcc atatgtttca acatatcttc ctccaaataa acttatgaca 120
 agcaaaatct gtaaagacga gagatgatgg cttaacaac taaagttacg gagtatataa 180
 cggacttggtg ttgtgtcact cattcttggc agaagcagcc tgctttgctc caacagaaaa 240
 gaattcagag atgacttcaa ggggcatgcc ctttgtttct ggaaccttca aaaacacaaa 300
 tatccacgag atgaaacaaa caactgcgta aatggcgaat acaccaccaa gtcctaaaga 360
 gccagcatc acaggcagcg agtatgtgat gatgatgtct tcaatccaga acactaatgc 420
 acagatagca atgcagagggc cacgcaccct agtggggaaa atctctgag 469

<210> 30795
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060c10d1

<400> 30795

gtaaaaagca agtaacatta agttggattg ggatacacia gataattcac attatctgaa 60
 gtacattgca ataacatata cttcaccaaa cacaatcta aaaactctca aaagtccaca 120
 agtcatcctt ttctttcatg ctcaattgcc ggggacgaag ttggtggcgt aggccagggc 180
 attgttggtg actgggtcgg caaggggatc aacaagggtc tccaatggac ccttaccggt 240
 gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cggtcttgag 300
 ttctttcacc ttaagctcag caaaagcctc tgggtcatca gcaaggccca atgggtcaaa 360
 gctgccacca gggtagattg ggtcagtac ctcaccgagg ggcccaccag caatacgata 420
 accctcaaca gcaccatta ggataacttg ggtggcccag atggcgagga tgctctgggc 480
 gt 482

<210> 30796
 <211> 504
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060d05d1

<400> 30796

gggtgtggaac gatgagaaag agggatgcca ttcctaatagc gatgccttga tcacatttga 60
 ggacaatttt ttacagcaaa catacacaaa ccccgatatag tgcattaagc gatatatattg 120
 ttaatatata catttttttgt agtatgtacg gctacttaag gatcacgagc ctgaaaagta 180
 atgacaaaac ataataataa gcatgaaata tattccacgc ttatgcctgt taagtattgc 240
 actaagcaat gcaacactag agatgatcca actcagcggg ctttctttcg tacagcattt 300
 ggatcagaca tcatgtccat catcattttc tcagggtgaat cctcccaact cgcaaagtgc 360
 ttcaagtcaa cttttcttct ttgctcagtg aaaagctctt ctctcttctt gtaagagttc 420
 tgcacttcct ttgctacttt cccaccaagt cccccaactt caacttcaga aatcagaccc 480
 ttgacaggaa ggaaaccctg atct 504

<210> 30797
 <211> 361
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060d09d1

<400> 30797

ataaaaaaaaa aatgatcttt ttttatattt ccagggtataa ccaactaaac tgagtatggc 60
 ccatagtacc ttacaactta ttgacatggg gcttattcaa agacattttt accccctact 120
 agaccaatga acatcggaca agaagtacaa actttctatt agatccaatt accatccctt 180
 ttcttaattc catccaagaa ctcaaaaggg tgtcctctcc tgtgatctac tgggctcgaa 240
 caggacagat gctacttcct gtagatcttt cgaagatgct tccttggtgc tggaacctct 300
 gacctaccaa cagaacatcc ccacctctc tggagtacta gcacatgcct tccatttggt 360
 g 361

<210> 30798
 <211> 494

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060d10d1

<400> 30798

aaaccataaa cagtttataa aacttcgtta taaattaaat gcaacttaaa acatccctca 60
 gcagcaaagg aaatggacta aaaccctata gctgcttggtg aaattcgaaa tatctcagac 120
 tcttcttacc atcaaaacaa aaaacagtac tcatcaaaaa caaacagcaa tgaaaattga 180
 ccaccgccga tcaagaacct agttttgaaa gttacggcta catgaaatcg gcagaaactt 240
 aaaaatataa cttaaacaaa acacctaaga ctctgcaagg ataaaactac tataaaggag 300
 taaccacgat gatgatcaca tgtgctagca aaattgccca aatgcaatca cttcttcttg 360
 gcagcggcct tgggtgacctt ggctccgggtg gggctcttct tctcaact tttgatgact 420
 ccgacagcca ccgtttgacg cctgtccctt acagccaaaa cgaccaggg gaggatactc 480
 agagaaagtt tcaa 494

<210> 30799
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060d11d1

<400> 30799

aaaaacaagc attaatgggg ttattttact cataactcaag tttcggcaac atataaagga 60
 tttttgggcc taggcctcct tagttaccaa aagaaaaaaa aaccttaaag ggccaaggaa 120
 aacaagaaag ggtcataaca aaacgtagcc cccatgggag atatgtggaa aaattgcaca 180
 aaaactctct ttatatcatt ttaattagga ggaaaatcgg ttatgcatat gctagtcttg 240
 agggaactatg ttcttgctga tggaaaaagc acattttttc ctgccccaaa aggaacattg 300
 atctcaatac tgtcaaaaat gtctgacct gattttgtac cgcccttaat tggcaattcg 360
 gggccctcac tgtttccttc gctgggtttg gtgttcagct tggctttgct ttttcccat 420
 accacagggg aaagtccact cacaatgata atagctccaa tacacttccc atataaactt 480
 gc 482

<210> 30800
 <211> 453
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060e03d1

<400> 30800

gatgattaaa ctgagcaatg aagatgagac cgctcaatct ttcactaata actgcaagag 60
 taaattaaaa ctctcgcaaa acattgatat cgttacaacc actgatccaa gtgaccctta 120
 ttttagaata cagttacacg cacaagtgca caacacaaga ccataggtaa aacataaat 180
 ggcatgaaca atgagtcaaa gcaatggcag aacaataata ttaacgccac caccacttgt 240
 aacagtgcac tcagttcctc tgcagtagca gagaaattag acatagcccc tgctcttcaa 300
 actctccact gcacccctga tgatttgctc aacaggagtg aattctagac ctaaataaat 360
 cagcttcttt gatgcattct ttccacttgc tctcaacaac cctgggtggg taccctttgg 420
 caacttagcc acatcgtatt caggggtataa ctc 453

<210> 30801
 <211> 378
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060e06d1

<400> 30801

gcctgtcctt tttttttttt tttttttttt tttttttttt attttctttt ttatttattg 60
 tttgggggtt ttttttatta tttttttttt actcccaata tttttttttt agattcttcc 120
 gggaaaaaaaa acgccccaaa tcataaatta aggaaattct taccatcga taattaaatt 180
 tgatgggaat tatgatgtag cagtagcaca cgtttgacca ttaaaatcaa aataccaggg 240
 caaagtttca agtaacttaa gacagaacgt ccaaaaaaac tagataaat gagtagattg 300
 ctcgggacct taaggcactt agcacttgac ctctttaaag gcatatgcaa agtacaggaa 360
 tgttggatca gcagcgcc 378

<210> 30802
 <211> 526
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400060e07d1

<400> 30802

aaaaggaaat gtaaatacagt aaatacatat ggatgatggg catttgaaat caagctgggg 60
gatgatattta tcacaccatc tgttctgtta tgaaaaacta ttctaatttc ttgcgattaa 120
acgattttga tctaatagatg agaatagatat tgctctcttg tttcccatc atcaacaact 180
gacagacacc tgcagcatat aacaaaacca tatgtatata tggacatcac agacatcttg 240
ggagaaatga tgatcatatga aacactacta tactacacaa gtttgacatt attctcgctt 300
atcttctca agatcttctc cgaaggcgtg atcaatggcc ttccgatcaa gcttggctgc 360
cacatcccca cttatcttcg ctacactgct tgatcagagag ataccctnct catcaaagtc 420
atctcccggt tcctccatgt atgcatatct agtaggggtc cgtgatggag cccaaagaat 480
gcatatcacc accaagagag catatgaaag cagacacccg aaagct 526

<210> 30803
<211> 356
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060e08d1

<400> 30803

ggggagtgtt ccttttcctt tacattttgc taacttttat ttgtaatctg gtagaatcaa 60
tttaactttt ttcatatgat aaatccgcga aagagaaaaa ccagtgggta cacgcatat 120
aggaccagga aagtatcttt tgggcccga caatctaaaa attaggagg cgcatcccc 180
cgggcctaac agaaaaacc cataccaga cctagagcg accccgcgga ggacaccct 240
ttaattcacc ctgaatattt agaaatactc gcctcacaaa ctgcatgaa tcatgggacg 300
acgcccggac agaggaagtg cccccccctc ttccgggcc caaaggagg gggttc 356

<210> 30804
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400060e10d1

<400> 30804

accaaaattg ctaacatatg ttccccggcaa attgctcttt cagccgtcag agtccagtg 60
 accaaaattg caggcaaaac cacaaataat agatggggaa gaaccaccac cataatatct 120
 ggagacccaa catactcaac ctcccccttt ccattagaag tctctatggc ccaaccata 180
 taggtcatgt ataccatatt tttcccttca gtaaaaactt gccccataaa ccagggaac 240
 aatgtaagat aaaataggta tcctagccaa ccaaaccata atttggggat cctgcagagc 300
 tcctggagaa accataatac accatcttact aagcctttat tggcaatgaa attcttgtaa 360
 gtgtatatct tctttggaaa aacaaggaga gcttttgaa gaagaaggaa tatgaacaaa 420
 aagttaagag ccgacaaaaa taatgggtaa taaagggaag cccattgaca ttccatgacc 480
 aaaaact 487

<210> 30805

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f06d1

<400> 30805

acggagcaca tattaagaca tatttcacat tattactagt tcataaacga atataactaag 60
 cataaacaaa tccaattcca aaatttgaga aacttggaac acaacaacat aacataaacc 120
 tatcaacacc acgcgcaact tttgattacc ggtacattaa tcggaactca acccataaaa 180
 atgaagcaat atactctcca ttttctaata taggggccca ataacaataa taataatggg 240
 aaatgtctcc ctcaatttca caccatctct gcaaaaggag agtgaaattt caagggacca 300
 aaattacagg gcagaagggg caggtgctga tgcaataatg gcctctgaca cgtcagaaac 360
 agggccaggg gcagctcctg agctcacaag ttcaaccatg gcacgacgag ggttgggtctt 420
 gtgcttttca cacagttctg gcaaaaatac cccctctcca gca 463

<210> 30806

<211> 313

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f09d1

<400> 30806

ataactatga tgtgaaacac accggtgggc aacgcatagg atgtccgcat atgacactta 60
cattcactgc catgtcaatt ggcattgcctt ctcagaacac tcccaaatta cacaaaaaat 120
tgcgacctga aaattcacat gcatacaggc tttgccgatg tgaaaaataa agaagtggag 180
tctaaataac aatcaccccc atgatataat cattatataa caaatccac cttctgaggc 240
tatgatcaac catgcatggc gatctacctt ggggctgggt ccttcacttt cttactacac 300
attctataca ttt 313

<210> 30807

<211> 438

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f10d1

<400> 30807

acgaagcaaa taacttaagt aaaatacatg atgaaccgga gaaaacagtc ccaaaagaaa 60
ataaaaatta taattacccg tcagggttaa aaaaaattgg agattaatat cgttacttgg 120
cactttacag cagaaggaca ctcatcaagc cgtaattgca cctacctagt cacacagatt 180
gaataaatta cctagggagt ttgatcggca acaagggtga attttcattc aacttgatcc 240
tttcgtgatt gtaagaactg aacttaaagt gattaacaaa attgaaaacg aattattatt 300
tttccttcta agcctgcttc aagtccttga gtttttctgc tttaagcata ctcaggattg 360
agtgctaag cttccctgta gatcatctct tttatttgct cttcatccaa ttggtgggtgc 420
tcaaaacaaa tgaaaatg 438

<210> 30808

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400060f11d1

<400> 30808

gagggaggaa atataacata atttatgctt ggatccttgt actggagtat aaaaattctt 60
gaaaagataa gacactacaa aaatctgacc acgtctaagc caatgaacac tgcatactag 120

gtactcaggt gctatgattt ctacttaaga agcaacaggg acctcaatat tggttgccaa 180
aacagcagca ggacgggcat attcttcctc ttccttagga gtgtggattg tgacaagatc 240
aggaagggga gttttaggac cctgtttccc tttaggatcc caatcaagca tgatcttaac 300
cttgatacca agaacaccct gtcttaggag gacatgtctc actgcagagt caatgtaatc 360
cttgactggt tgtccagaag agatcatgta cccatccttg aatttcattg atttggtctt 420
ctgagccctc aacttttcac taacaatcac ctcaaaccc ttggcaccac tttccatcac 480
aaa 483

<210> 30809
<211> 503
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400060g03d1
<400> 30809

accatatata tatagagaga gagaatacga agcacactga tcacaggatg atgctctctt 60
taagtaggga agcagatctt atcagtacac ataggtagggt tgaaattcta gctctagcaa 120
tctagctaga gaaggtagta cttgcacaac acacagcaca tgataattta ttttatacac 180
aatctcattc tcatggtgct caagatgcat ggactaatta agcaacaatg ttggtctgat 240
aggcagtgtc cacagataaa ttgggtaccc ataaaatggc cttgcttcca aggaaatggc 300
aaacaggggt agttccagga tcaactccca taagttgatg aagcatttga tgattcattc 360
cagaagtatt tgagtggcaa atagcaagtg cctgagtttt gggtccatca ccagccacca 420
atggaaccat gaaagctggt gtttcacgga cttcatggca ggaaaatact gcagttctga 480
aatttagcct atgacacatc act 503

<210> 30810
<211> 552
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400060g04d1
<400> 30810

atggaaatcc agatctatac ttccaactgt attcagaaac ataaattgaa gcaataacaa 60

agctcaatct ccaactcaca tatacaagta aaagaaggca caaagtgaca gtgctcactt 120
 ctcaacaaca caacaacaaa agaaaaaaag agactagttt tgtttttcat catcatgtta 180
 ttatatctaa aacaccaagc tcgaaaacca cgtactatat attcaaattcc atatatgtaa 240
 attttaatca cgtaattaaa tcaaaccaaa actgaaaaaa agtgaaaaga taaagaaagt 300
 cagagattaa acccatatat atatatagag agagagagat cgagagagag agagaaaggt 360
 gcaaggtgaa gatataataa ccagtataca ggtaatttg cttgatctag caaacaatcg 420
 gaccacaacg cttcaattcc ccgagaagag agaagaaagt agcatgcctg agactcttgg 480
 aagaagaaga catatcacc ctttgaataaa aagtagtata gatatgaatt aacgggagcg 540
 ggaatagggg tt 552

<210> 30811
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060g06d1
 <400> 30811

ccagtgaaaa ggctttaaga ttccattata taatatgaag acaactatct aattgtcata 60
 tatacattag atgcttgggc aacctatact actcataaac tcaacattag atgcttgaga 120
 aagagaaagt ctcaaccatc acaatatttg cagagtaaa aaacaatgtt cgtgaaggtc 180
 atatttgcta tatctaagac aatgacgtta cagctagaag ggacttacac tgcacagaa 240
 atgaacgtac atgacgtgat gttagatatt ttttttaagc catgctgtac ttgatccagg 300
 agacttcctt cgcaggttca acaaaaagaa catcaaccac attatgtaca ttgcaacggg 360
 ttagatgtca atagtagaac agcacattac ggctggatat tgga 404

<210> 30812
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060g07d1
 <400> 30812

gaaacatgaa ttaagcacia aagacgtgga taacttgata ttattttatt acatacatgc 60

atagatagcc tgctctcaaa taagtcggca ggaacaaaga tagagagatt caacgatctt 120
 caaatttcac atttgccaga aatatataac agaaaagagg ggtatgggat atgagttaag 180
 ttttgatcac attcaactac actatcccaa accgttactc ttaagacttt gaacttcact 240
 tgtactctag gatcatgttg ttctcaggag ctaatccaac acaagccctc aggatgtttt 300
 ccagcatagc tcgctgcttt gacaacgcat tcaccactgg tgtaccggt ggaaccagag 360
 gggccttggg caggtaaacta aagatggctg caactgggtg gaatgagtgg aattttccct 420
 cattttcagc tttaaactcg attcgagtgc tgagctcagc aagaaggacc aagtccaaga 480
 taataggag 489

<210> 30813
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g08d1

<400> 30813

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 caaaciaaacc ctttgtgtcc attctcttgt taaaaatgct aatctaaaga atcacaaaca 120
 aaaagggaga caaaaaagaa gaagaatgca acatccatta tggccaccat tgttcttaag 180
 ttctagttct tgcagctctt catgtataag tgaacatgtg cgtgcaattg taggcttgct 240
 tcctcatttt cattgaactg ctgagactga cagaaccctt tcccattcca gaataaagca 300
 tatagtgcac gaagatacaa ctttaagaaag gaatgactga gccgaggcag cttcagcaac 360
 ggaatcaact atctctaagt ctcagacatc catccatgca tgtgcaagaa aactccctca 420
 tgttggttgg ccaggaacac gtgaagaaaa atgcttttgg gattagaact aatattagct 480
 taaaaa 486

<210> 30814
 <211> 423
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g09d1

<400> 30814

ggcggggtag caatthttggg cgateatc cgcggggaa ataaacaaac ttcacattga 60
 tctcattaat gataaatcca tgcccaaaag gaaacaaatt taaacctagc ttattaatta 120
 ctttacaata actcgtactg acgacaaact ggthttatthtt tcatgatcat tttgatacat 180
 aactthttctt tacatgatac ataatcaagg gttattacca thttthtttaa aactaaaaat 240
 cttgattatg taaatthttag tctgcatgac catacccatg tacctagggg tatggaatga 300
 tcatgtttac ggccacatca atctggthta aaatggthtt caattgatcc cagaagaggg 360
 gaattaatth tathttgtgg accgtgagca ggtaagccag gaattagcag accaaccac 420
 ctg 423

<210> 30815
 <211> 298
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060g10d1

<400> 30815

ggggcaaaaa cttatthtcatt tgttcaagta aaaacgggga aaagtcctt taaaaaaaaa 60
 gagaaaaatt aaatcgcaat aaaaacctaa tgacccctg gtatthtaaac ttcaaaaggg 120
 gctthtgacaa aatcaaaaaac aaccctgaa aatthtttg ttaatcgact tcccaatth 180
 tggggccaac accccttcca ctgccagctg cgggaccatc cttatthcatg gthcccccg 240
 gattaccacc aacaccctgg aacatthttg ctatgatggg attacaaatg ctctccaa 298

<210> 30816
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400060h03d1

<400> 30816

atacccaaat aataactctg gtgcacaaat atatataaca tcaaatcaaa agaaatctth 60
 caaatccatc tacgtacctg gctacatcca ataccatata caatatatat accccatccc 120
 caactthtatg aatcctataa ttaatattaa gctaacttaa atctctgcaa gtatagthct 180
 atatgtact attcaatgth tacagggagc tagcatcccc tcccatgcca ggaattccag 240

tataaccagaa tcacggtaca atatttcata attagtgact gcatgcatgt gtatatatat 300
 gtaaatgaaa ataacataaa cctctcctt ttcttttctt ggtgctgcta gcgaagttaa 360
 ttagccaagt ctagagaaac actcatcaga actctaagat ttctctcata aattatccaa 420
 tattggttta gctagctagc tagccatcag ttcttacttt ctaggccacg aaatctggta 480
 ataactgatg agcaacanac ctctttct 508

<210> 30817
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060h05d1
 <400> 30817

aataaagaaa tatatatata tatatatata tatatatata tatatatata tatatgctca 60
 aataattttg taaaatgatt ataataaaa ataaataatt tataacaacat tataagtata 120
 aagttctgcc aagatgcac caagtgacca aatatcaatc ttcttgtgat atagaagcca 180
 caaaataacc tttttgtcct ataggagcat gataagactt ggactgaaca tacgagcaaa 240
 ggggctctgt ctcaaaatag ctacttccca gatcaacgac cttaacctca catctgtgct 300
 atagctttta accaaaatat tctccggctt caagtcacaa tgtattatta gtccaagact 360
 gcaaaaactg aagtgcttcc aaacactgaa tggtaatcga atgatggctg tgtcaccaga 420
 cgtgtgtttg ctaaaccatc tttttctcct ttttgg 456

<210> 30818
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400060h08d1
 <400> 30818

accaaacatt tatatatata tatatatata aaaaaaaggg aaccatgacc ttaacacacc 60
 catcacaagt ccaaaacact tgaacttgct caagggcaag aaatgaccac tttattctaa 120
 ggggtgtttg ttagacacaa aacaccagag ggcaacataa tacatactac ataattttga 180
 agttttgaaa ctacatatag gttttatcat tattttctaag ggccatttct gtttgaagct 240

ttagctctcc aacacctcac ttgcaagtgc aggggttgca ggtgcaatta gctccacatt 300
 tgcagccatc gttctcagcg ggaacaccca tttcagcact ctgcaattga gccttaactg 360
 gtgccactcc catgaccaag gtctcggggg g 391

<210> 30819
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060h09d1

<400> 30819

aaaattataa gcggagattc ataattcaga ttagccgaac tttatacaga agcgaccaat 60
 ttccaaacat ttaaaaaaaaa aaaaaaagaa gcccccttgg gcttaacaca cccatcacaa 120
 ggccaaaaca cttgaacttg ctgaaagggg agacatgacc actttatttt aagggtgggt 180
 ggttaacaca aaacaccaga gggggccgaaa accatcacag acataatata taagttttta 240
 gctaccatt aataggttat cattattcct aaataagggc tatctttggg tgaagcttgg 300
 tctccaaca ccttacttgc aagtgcaggg gttgcaggag caatttggtc cacatttgca 360
 gccattgttt ttagggggca caccatttc agcacctca aatt 404

<210> 30820
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400060h11d1

<400> 30820

catgttaaac cgatgcaaat tcattacagc ttattctcac aagttacgtg ggagaacgtt 60
 cagttacttt acattagaca ttagctttct acacgtgttt tggtaaataat tgaactacat 120
 cacttacaaa aacaaaaaga actacaaaat ttaaggattg aaaacttagc aggcacctaa 180
 cacaagcaac tgtaaaacaa actacaaact caaaccacta aatctattca ccagctatcc 240
 ataaattttt ctacctaaag gcatttagat gatggcttta cagtactgct tgcataatc 300
 tgggtgtgaca agttttcctt caaacattca aactagtcaa tccattcacc agccatagat 360
 aggattttct acctgtggag gcaagagatg aaggctctta cagtgtgct tatcgtagtc 420

acgtgtccca gggattgctc ctgtacataa tctcagaaat tcattcccag tgagacaata 480
gtgagcaaata 490

<210> 30821
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061a10d1

<400> 30821

acaataatct catccttatt cataaagctg actcaaggga aatctttaga caaggagaaa 60
ggaaggattt cttctactgg agtactagtg caagtagcaa gaacaaccta tatcttggga 120
caaaaccagc ttgtacaatt acctttcaaa tttcctccaa ttagaagaat tggaaaaatt 180
cctcacagaa tgcaatgcag atgtgtccag ataaaataca cctcagttat ggcattacat 240
ttaggagcaa aagattgtgc agacaatcct taaacaattc atatgcacaa actgtaatac 300
caaattaact gttgttaaag ttcgtttatg ttttacagat tataaaaaatg tgtaaacatt 360
aatggagtcc atataaaact gaaatgagtc ccattaacag ttgcataccg ttgggtcaaaa 420
gcatctaaag ataacaaaag gcaccggggg ggataaaaac a 461

<210> 30822
<211> 418
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061a11d1

<400> 30822

aaaaagaaac ccaaccttgt catatacttg ggggaagagg gcaacaaatt ttacatagaa 60
gacatggggg gggccagaga aaataaagag atgcatttat atgactctgg ggttatTTTT 120
gattttgcaa attaaattac acaatcacag ccggacatta cacatgagtt gggcctTTTT 180
caacttaaaa gcagaggata acattggccc atgacgcgac acatgcacca cctaataatc 240
ataattttac atctttacat acaaaataca aagactttta attttaaaaa gaagaaaaga 300
ggtaaaccgc tcttcttaat gaaatgaaac caaaaccac aaacattggc ttgatttttg 360
ttgttgttgt tgttcccaac ttgattaaac atgaaccgtt tgattgaatc acttggac 418

<210> 30823
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061b10d1

<400> 30823

acggcaaaca aatggaattc tattacatta tgaattacaa gttccttgca tggcatacat 60
 caaggaaaac tgggaagttg ttgtatgtgg attgatttgc cacagcctta tatagacaaa 120
 ccaaattgctt aatatcaaca caaacacgtg tacagaaaag aaaccactct tcaagaaaaac 180
 agaaaataag aaaaactaac atattggaag aggtgccccca ttccactccc caaggcattc 240
 caaaagtgga tcaatgatct tcccttggca caaagcagtg aacactttgt cacactcttc 300
 acccggtgag ataacccttt caccagttag caatgctgtc cccaactcct ctctcacaaa 360
 cttgtacaag gggtaagacc tgcattcctt gatcttgttt ggaattgcac attggtcatt 420
 ctcatatgca actcttgcac cttccacttc ctttaggcaa ag 462

<210> 30824
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061b11d1

<400> 30824

ataaatcaat atttattaaa tgatgggagt aaaaaaagta tccttgcctt ttacatcaat 60
 ttgcagacct agtgttgtac ccaaaaattt gcagacctag tgttacaata agataaacat 120
 ttcagaattt gacctccact cataataaga catgatactt tttcatgctt agctttttatc 180
 caccaccagc ttctaacttt gatgaattcc accaccctt tatgatccgg atgaattgaa 240
 caagttattc ttaaacttgg tcagcagtgga tctcaaatca tatattgata atgggggtgct 300
 aattatcatg cagcagacta atacgagtag caagactacc gcatattaat catcatttgt 360
 tataaatatt gcttgtggca caaaaaatca actcaagtaa ggatgggtca atctgtacaa 420
 actacaaagt cccccaactg tggaagagag gagaatctaa tatctatcat taaggactac 480
 catatacaac ctaggatata cagcttcttc tgtttgactc aactttga 528

<210> 30825
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061c09d1

<400> 30825

tcgcgatcta ggccgccctt tttttttttt ttttttcttt ttaacaatat gaaaataaca 60
 ctacattacc aaactaaaac cactgcagaa ggcaatgttt gtgaacacac aacagagctt 120
 ctggacggga aaaagttccc cagccacaca aatcttggtt taaaaaaaga aaatatttat 180
 tataaaacgt taataacatt cgatggcaag ttcacatca cggaacccat cagctacaga 240
 taatgaccga gttgttttta ctattctgca gcactagcag cactaagatc cacactgagg 300
 tcaataacct ttccagttat caatgtatac atgttgagaa cgatcatccac agtcgaatga 360
 tagtgagtac tagcattata acttgacgat ataaagcagt tgtccaaagt ggggtcggtg 420
 actgggtcat atttgtcata ggtatcaaaa gatatctcat caactgggtcc tagaaggtta 480
 atttcaggtt ttagtttaat tgccggctg 509

<210> 30826
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061c10d1

<400> 30826

actgggaacc caaaatttta acttggttagc gacagaaaag tacacgagat ctccatcatc 60
 aatcaattca aacttaactc ggaagaaaag aaaaaaagaa aaaaaagaac aaaatcccgg 120
 gcaaaagttg ccattttaag acttacatcc acaacaaga aacaatgatt gccacgggca 180
 tgataaaacc tttaactgtc tttctattca aactcactgc attcgaagca tcaaccgatg 240
 aacccgatga cccagatgaa gcatcagcag cccctgcccg gacatttttt tccggcttgg 300
 atggcgcagg agcctccgcc ggtgcagcag ccggtgccgt cgcgccgaaa agcttcatag 360
 gaagaagcac cttatccacc tgatacactg agagctgagt atcactgtag atagtattgg 420
 aactgggtgt atcaaccacc ccagttgtta cattcacttg gtcacctgag ggggtcacat 480

ttaaaggata ctctccatca tcaact

505

<210> 30827
<211> 373
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061c11d1

<400> 30827

accataaat tagaaaggcg aaaccacctaa acaaacccaa ttgttttggg ggaaatttgc 60
ccccggcgat aaaaaggaca acccgatttg gggaaggggg ggcaattttt taaacttttt 120
ttttaatttc ggaaatctcg gaaagaaaaa aaattggggc cccaaccaac gccttattaa 180
ggggggggta cactgggacc ctgaatgggg ttttcccaat aaaaaaactt tgaaccgggg 240
gctttttttg catttgggct tccatgttgt tgggttcacc cgggtaaaca acgcagggtc 300
gggtccaacca actccctttg gccttaaagg cacaaacctt tttttttggg gtatggggca 360
aaaacacatt taa 373

<210> 30828
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061d09d1

<400> 30828

ctaagaaaaa tctaaaactt cactaacttg tacatttccc agcgactca cgggtgagct 60
tacacaggct gacatgcaca cagaaccaca tgaaatagac aaaaaaaca gagaaaataa 120
ttaaataaat gccatggcaa tattgcatga ctttgtatac aaggcatgtc agaaaattat 180
ccagtctgaa caagtaaacc aacattgtcc ctcttagtac aattatgttg tccttggcct 240
ttggtataca gcaacaactt gatgaaagag aaacgaaaga gaattccttc actacatcga 300
tcttctcaac ttgtttttat tcatgcatga gttatgcaat tccttgggtcc ttggggacct 360
tagtgattaa atatatatta actaactatc tgcacacttg aatccatcag gtgggggtcct 420
gccacagtca atgagaagct gaagagcaat agggatgatg atgttgatgt tgagaatcct 480
agccctaagt gttgtgcaga gacacactgc agcatccaag gccacaagcc ctgcaagcac 540

0022ED-ETFE50

tggacaacat gt

552

<210> 30829

<211> 391

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400061d10d1

<400> 30829

gggaaaaaga caaatgtaaa ttttttttta ttaatagaga tgcttaaatt ttgagatagt 60

tgtggctagc taactaaact agctttacga agtagccacc aaacgaggct cactccaatt 120

taaaaattcg tggttgtcgt ggtcaccacc ttctttgcac cttttgagcc tttcgtactt 180

tcccatgaga atgacataaa tcttcacata cccacatgca aaacatggct catctggttc 240

ttgttactac ccggtctcga actatgttta ctgttggttct tattcggaag cgacttatac 300

ttgaccacct atgacggtac cacagactct atgattgaca aggtggactt ttttcatcaa 360

cgttatcgta tggaaattct ggagctgaat a 391

<210> 30830

<211> 596

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400061d11d1

<400> 30830

atatggcaac aaatcaaact gttttaaata aaatgaaatt cgcaaagaaa aaagaaacaa 60

acattttatt gggaaagaaa aacagatgtg tttgtgatct atactataat gggaagggtca 120

ccaaaagaag tcatttgcac ctttacacaa ccatcaagca gatcgtattt tcgttttaaa 180

cattttacaa attggtcttg ggtttgacac ttccagttcc agctacgcgc cttgtcactg 240

accacatggt tacaaattct tctgcagccg atgggtgtat tcccaccgtg ctatcaaact 300

gtgccttggt agtccacac ttcaacgcaa cagcaatacc ctgcataatt tcagggtgcat 360

cagggtccaca cattgagggt tcgagaacct tatctgtctc agcatcaaca acaagcttca 420

taacagtttt ttcttgcgc ccagagatgg tattttttat aagattgaag gttgatgtaa 480

aaaccaacag atccccattg gtttgcctcta ttgcctgctc ctactgaga ccaactacag 540
 aaagtgggtg aatgctgaac actgcatang gaatattact gtagtctggc ttgatg 596

<210> 30831
 <211> 606
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061d12c1

<400> 30831

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 tttgttaagt tttatcacia caatcttgaa aagaagctta ctaaatacata aacgccatga 120
 caacataaaa cggacacata ataaacaata gaaggattat ggcagcttag tatgagattc 180
 tatccagtcc catatgcctt cagttctcgc ttccaataca ccatgttcga agaggaacac 240
 tgggtactgcc taggttctgc tcttacattt ttcaacagcc ctgggagcta gaccaatggc 300
 atcagaactc ttcatgatcc tcagcctctt gcatgtttca ataaacatct cccagggaaac 360
 atcaccaca agcatccaat cgccctctct gtctcatat gtaagaacat attctgatcc 420
 atgaagaagg tccttcagct tgggtttcatt cagcatctcc ctgcccagaa ttccatgaga 480
 tccacattta cctgaaatca taccaaaaaca agcagtaact ggatccaggc agactgttca 540
 tacataaata attgaaaggt caaagttttt cacataaaac taattctttc ttactcatag 600
 taaaac 606

<210> 30832
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061e09d1

<400> 30832

aatcagggtca actaaatcaa gatattttat aaacaataag ttcaccaaata aaattaagct 60
 caaggcctta tgtttccaag ttgagaggg gagggggact atgacgatat caatattcat 120
 gcaatcaatg gccatattct acagaaaaac accaacgaat atcaatttaa cccatttaca 180
 aaacacctct ctaacagcaa aggattttat ggatgttatt ttccagcctc caatcttcaa 240

002220-ETEE560

ccaagcagaa gtttcaaagg aacaatcttc atgtatcatt tggaaataca caattttctt 300
acaataatgt ataaataatg aggggcacca cactctcaaa ctatatctca ggattaagat 360
tttgtgaggc caccaggctt tttgtaagcc atattgctgt ttctctggat gatacagata 420
cagcatcttc ttcaaagggt ctcagcacag cagcaagctc ttcaagcttt ccttgctgaa 480
gtagctgcgc acataactcg agcagagatt ccagagcatt agctctttga tg 532

<210> 30833
<211> 530
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061e10d1

<400> 30833

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aggagcaatt tcagacataa aaacactaga atatcaatac tatgggtcact actctactaa 120
ttcaagccag cttattcttc cagcagggtgt caggaaactgt ttcttgtgct tcttttcaag 180
acaaagcctg gtaagggttc agcatctgag tgagtgaacc acttaggtgg agggacatga 240
tttcattggt ggatcccatt agcttccttc ctatgaatac agctggaact ggagcagtgc 300
agccttgctt caatagagct ttctccattt ctctgccttc agggtcattga tcaatctcat 360
gaaccacagg attcacacca agttcttgaa acagaatggt gactgcatag cagaggcaac 420
aagagctctt tgtgaaaatc accacaccct tttcagaagc caacctogtc accttgcca 480
tcttgatata ccactgatca agcaccctgt gatcttctaa atatatatat 530

<210> 30834
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400061e11d1

<400> 30834

ggcagaaaaa caagtaaacc aacttgtag ttgttactaa ctgaattctg tcttgatcaa 60
tttgataaaa atcacatcac cagagcttcg aatgggttca ttgtggttgt gacctcatat 120
aaaacttctt acttcttagc atgtcagggt tagtcagtgt aatgggttat gcaaataaac 180

ttggaataaa ctagcaaccc agcccataac acatgaccaa ccctaatatg ctaacaagac 240
 caaaacataa tattcggttt tcaccttaat ggtcattaga tgctcttctg gagaaacgga 300
 catacgtcac cagatacaga ttctgaaagc agcttccaaa gcttctgcaa ttgaatatac 360
 cctccgtata agcaaaccce agcaggaaag tatgcaagct acaatatata atcagaatta 420
 gaaaaccctg tagtcaggag taacctaataat ggcggacata ctcaaattag aagagaattt 480
 ggtctcacgg actaagactt taaagaaaga attaaactga ag 522

<210> 30835
 <211> 558
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061e12d1

<400> 30835

atataaatca aactttcatt aagaatattt atgtgattac attatagcta attaaatgct 60
 aggagcaatt tcagacataa aaacactaga atatcaatac tatggtcact actctactaa 120
 ttcaagccag cttattcttc cagcaggtgt caggaaactgt ttcttgtgct tcttttcaag 180
 acaaagcctg gtaaggtttc agcatctgag tgagtgaacc acttaggtgg agggacatga 240
 tttcattggt ggatcccatt agcttccctc ctatgaatac agctggaact ggagcagtgc 300
 agccttgctt caatagagct ttctccattt ctctgccttc agggatcatga tcaatctcat 360
 gaaccacagg attcacacca agttcttgaa acagaatggt gactgcatag cagaggcaac 420
 aagagctctt tgtgaaaatc accacaccct tttcagaagc caacctcgtc accttgtcca 480
 tcttgatata ccactgatca agcaccctgt gatcttctaa atatatatat gtacaagaat 540
 tctggtcctt agacttaa 558

<210> 30836
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061f11d1

<400> 30836

gatataaaaa tgctctttca catccaaata gcattgaaac atagaatgga acttctccat 60

aataatacag taaaagtcac tcagaaaaaa acaagagaaa ttaaaatgta aagcaacagt 120
 acagtagcaa gccaatcttag cttgatgcga ttattcttta atccgtagac atcctataac 180
 cgagagcaga aagcaaactg gccgagtcta acttctatga aggaaagaac atgagaatgg 240
 tgtagccaat agtgcaaaaa ttctccaaat taaaagaagt caacaccttt agttagtatt 300
 tgtagtcctt gacatggaga gactcggagg caccctcagc aagggtagca tcacctttgt 360
 aagttcccaa agttgcatgt gagtttgcac tgcacct 397

<210> 30837
 <211> 514
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061f12d1

<400> 30837

ctgtaagttg taacctgacc agtcctcaat catttcctac tatcaccaca acattttgca 60
 tgtttatcga ccagaagttt ctgccacaaa aagagcatct ccctgggacc ttggtaatgg 120
 gaaaccacat aaccatcctt acaaccttcg agataaactc tgatctcatt ctcatagcaa 180
 acttctagac ctctcttctt catgactgcg atccagattc ccattgcaac gtcttcaaatt 240
 ggttatgtct gaattttcttg gacatcgctc tcgtgatatc aactgagacc acataaccgg 300
 gaccatgtgc ccaaggagga taagttcctt gctccattcc tgtaggtttt tctgatttgg 360
 atccaacaaa tccatgattg gctcattgta tatctgcaaa aacaaacttt gtgccaaaag 420
 gactaaacta aaattgttaa gtaggtcagg gacacaaaaa gaaacaattt agagacaatc 480
 aaccttaaga aaagagcagt ggcactgata gctg 514

<210> 30838
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061g10d1

<400> 30838

gaggaaaaga aagaaagcac atgtattatc tcaatgggga atatgaaaaa aatctgatca 60
 atcagggtaa cacaaacctg acatcaacga caaacagatt tcaaactttt gaattgaaac 120

accatcccgaa taaacctac ccctcccaga atggaagaca cttattcact gtttctccat 180
 ttatgccctt tgtgccgaac tttgagtac acaattaagt gccgagcgtt atgattgcac 240
 ctaatccttg ctctttattc cacataccat gaaccctggc atgccaaagt gggcttaaaa 300
 cttctcgaca tcagctgtgc gatcttcctt ggcctcgggt gttgcgaggc ccttggtgag 360
 accctcgttg agttagccat gctccttctg gagctccagg gtgagagtca cagcacgggg 420
 aaggaactca ccaatctgct caaaggcctt ttcaaccaa cccct 465

<210> 30839
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400061h12d1

<400> 30839
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 ttaaaactgg aacctgcaac aacctttatg ccagggaagt tggctgacac atgcatcata 120
 acaatccaca aagacaaaaa taccatctca gttaatacaa caacttgaca catattgaga 180
 aggtgagtga cttgacaact gctgcaacat agaagacgac aagactgact gtcagacacc 240
 caaactgagc aatgcttgat gacaactctg gaccttctca accctcaaac atgtcctagt 300
 actcactgat catcttgatc tgcagctggg gaaggagatt tttcagactc ggttggtctg 360
 taagcaccac aattctgtct gttgcacttg gttctgaaag gatagtttat gttg 414

<210> 30840
 <211> 457
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062a03d1

<400> 30840
 gtaaaatatg aatggattct ccccttactg attggacaat ttatcttaca ctatccaata 60
 catcatcatg aattgacatt caactctaata taatccactc tacaatggca caatccataa 120
 tttttgtccc attattatat acatcaatca aatgaatgca ttacacaacc aaccacactt 180
 atgtcccata ataggcttcc ttaaagccaa agcaatgaac aattcaaaga accatccaaa 240

gctcaaaaga agcatttgc ttcgatcaat caccacgcta tgtgttggct tctggatctg 300
gagattggaa aatacgttga gccaacatt gaaagggctt caagagttga gcccttttct 360
tgcgccagaa ccaaattggca gcattgtagt tttcattgcg aatcttctga gtggctgctc 420
tccaatcata cttctccatc tccaaacgtg cagcttc 457

<210> 30841
<211> 256
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062a07d1

<400> 30841

gtggagagta gagaagaaga cgacgagtca aggaaactaa caatcacaga gacataaatg 60
gatgtccgat ttcaattgct gcaatgcaat tacaagctct ttgtaccccc attataaaac 120
tatacccggtt ttcttaaaat aaaattgaag acaacatttt gatttactat atagttgtaa 180
ctgatcaaca aggtttggag ggaccatta attaaataag ccaaagcacc aaaaggggat 240
tgaagtgaca aacaac 256

<210> 30842
<211> 428
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062a08d1

<400> 30842

ggaagtcatt atcaattcaa tcaacttcaa taaacaacac aagggattgc tacatatata 60
tgaaccctg acacatacca ttacaaagct acaaatataa cttcttttca tactactaca 120
tatataactt gaaacttga gacttacatg caatgcctta aacatttagc tcactatctt 180
ctactaaata gttagcaata aacttttagc aatgccaaaa cccaacccat atcaaatacc 240
aattcccaaa taggagtaac tttgcaatgc caattcgaca cgatttttat tattgtaccc 300
acaagtcag aaaattttta acctaagaac cacttattat tttgtttttg gtgcaaagct 360
tacgagcaac accaagcctt gagttgggca cgttgaaaag cacacggggg ttttgctggt 420
gcatgttg 428

<210> 30843
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062a11d1

<400> 30843

aagagatatg gatgatttat ttattattca tcacatgcac taagattcca taaaaataca 60
 gatgtacaag gcaaaatttg ccctgtcact tctcattggg taatatactt ttaagaagag 120
 atggaagatt gatttattat ttatcacatg aactaagatt ccataaaaaa ttacagatac 180
 acaaggcaaa atttgtcctc gtttctcatg ggctaataa cttttacaag gaataactaac 240
 aacactttct ctaacatact ctttcttatt cactctctac tattgattaa aatttataag 300
 aaactacaag atcacgaata cggatcatta aataagtagt gatgatccat aaattattgc 360
 aatttccaat aaactttaac taataatgaa aagtgtgtta aaaaaagtat gctagagtat 420
 gttactagca tttctcatat ctataataat acaaagtttg gggcttcaag aatctgcaag 480
 ttctataagt tgattgacca catttggat 509

<210> 30844
 <211> 528
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400062a12d1

<400> 30844

agtctacaaa atagaaaact ttatagaaag agacctggac aaactgtttc aacattatca 60
 aagtaaaaag tagagaagaa aacaaaccag tgataaatac tttgttccca agaactacag 120
 aaaatgagga tgaatttcaa taacaacgat caaggctaca aaaacatcca cccaagacta 180
 tcgaagtaga ttattacagg acagggcata gcacaatcgt ttgatgatga tgcagcaaag 240
 ccaaattctt tgatcaaaca gtacatcact taaattaaat ttccttcaag tgaaggacaa 300
 ttaacataaa cctcaagcag agagtcataa tgctcttccc tgcttcttcg cgaaacataa 360
 ggatgcatta tttcatcatc tggcagatat ctcgctcctt cttcagacat ctaaactcga 420
 cgaatatgta atacagttgc acaattcttg aaaaaaggcc aaatctgatg atgatccaaa 480

acagaagact gngaggaatc ttgaagctac actacatgca gtttttta

528

<210> 30845

<211> 206

<212> DNA

<213> Glycine max -

<223> Clone ID: jC-gmst02400062b01d1

<400> 30845

atagacaata attgaagttc ccattaaaat ttcaaacaaa aacttatcaa acatgcattc 60

accttcaaca ctaccacaat accacggttt actgggccga aaaacaagga cagatgccta 120

acgtccttag gaaactcact ctattacata agccaaaaat aatacatgaa tgagtcataa 180

ccaacagcaa aaaatatcac tgacca 206

<210> 30846

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062b02d1

<400> 30846

aaaatcagtg ctgaagtatc cttcaaccaa aagtggttg tccataacat accaaaagtg 60

tctaacttaa cgaaacaaac tcaacctgaa aactgtatca aagccagtg agaaaataac 120

aatccatcat cactacgtaa actccaaaat ataaacctta agaaacaagg ttgtcattaa 180

gagataacga aacaaactca acctgaaatc tgtatcaaag ccagtgcaga aaataacaat 240

ccatcatcac taagtaaact ccaaaatata aaccttaaga aacaagggtg tcattaagag 300

ataaggaagc cagctgatca gcagtaccgc cagcctgctg ctgagcaaca ttccttagga 360

cgctcattgc ctcagccacc tttgctttca gggcttctgg cgactcaagc aaatgcagaa 420

cttcagtctg gtccatctca agaagcatgc ctgtcactct ggcagcatta tcaggctcta 480

actgttcac aagggggtag agattctcac ccagca 516

<210> 30847

<211> 538

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062b03d1

<400> 30847

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gcagcataaa gacacgaaga tattactaat atgatgatga ctagtacaat catgtcgaac   60
aagatttcaa gtattacaaa ttgaaatcca ttacctggt ttggatgaca ataataatat  120
atataaaaaag tatataaaaa aaaaaactta caaacagctt aaatagccag aacatttgga  180
tttactccaa gcaattaagg tcaacaacac aaaggtgaat tggatcatca catcttctat  240
gacacagtat caatcgcacc cctttacaac cttcatacaa gtgagctcaa taaaaaaca  300
ccggttaaag tccccgtaa ctggaaaagg ttcattcatc attgccagca taaccacaaa  360
gtgcaacaac attccaatcc ctcttctaac ttttgataa ttcatgaaag cacaacagaa  420
acatgggttag tattatatca cccaatcaa attaaaactc catgcaaaga agttgccgtt  480
attagacatt gaagaccttt ttcagcctac aaagtcatgc aacagttgtc ctccatga   538
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<210> 30848

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062b04d1

<400> 30848

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ctgaaaaccg aattatcatt tattaactgt aacttgcttt ggaacaattc aagttcacta   60
acaacatcca tgaaatccaa tcattaataa ttggaaaacc aaaccaaacc aaaccaaacc  120
aaacttattc caacaccact catcaaacag aaaaacaatc caaactttca aaactcacia  180
actcaagaac aacttgaaat tactactaac aaaaacaaga ccaattgggtc aaaaaccatg  240
aatcttgatc tggtccttcc tgacaaggcc agcctgaacg aggaagtggg agacgttctt  300
acgctggtcg ccttgaggtt ggatgatctt gccaaagctcc ttgtcctgca ccacggttcc  360
gttgcagcag aactccttct tgaggtcctt gaggatcttc tcgtagctga actccttctt  420
cagcccttgc actgtggtca gactcttctt cccattcctc tgctgaattc gaatatgcac  480
atactccttt gctccggggg ca                                           502
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<210> 30849

<211> 553

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062b08d1

<400> 30849

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ggttccacaa tctattgctt tcatatgtga gtgaagggtc tttctccagc agctttgcc 60
ttaaccact tttgtaattc tcaaaggaat caccatcaag cccatccaac aattctttca 120
ggccatttaa gaagttttca attctacttt gcaagtaaac tgggtggtac tcagatgact 180
gaacgcagaa acaaaacca gagatacgat atgttactcg tgggctgcat tcaacaacat 240
aaccaagctg ctcttttgtc ctcaagttgat tgaaaaatgg ctctccaca atttcatcaa 300
aaagatcaat taaagctttc aatttgattg accccagacc aaaatcttgc tcaatttgaa 360
aataaagctc aaccaccgag tttttttccg acttattctt cacattgaca tctctaacta 420
aattggcact ggatgggagg caaataacac gctcagcatg cctcaattca atgggagtgg 480
attaactgga aaattcatct taaatatttt tgctatgcc aatgcctctt cttttgacag 540
atttccatgg caa 553

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<210> 30850
<211> 351
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062b09d1

<400> 30850

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ctccaaaag ggggtttttt tctcccctta taaaccacaa gaaaaaaccc cccctgggg 60
tttcgcaccc ccataaaaga aagggttttg ggggtacaaa aaaaaccccc cccctatttt 120
tttcggggg aaaaaaaaaa agggggcccc cccccccca aaaaaaaagg gccctaaaa 180
aaaaaatttc ccccgctcat ctaaatacaa aggccccgt tttttttcc caaaaaaaaa 240
aaaccccggt tttttaaaaa aaccggggcc ccccccccc ccccttcc cggggtccc 300
ccgctaaaaa aaaaatttac ccccaaaaac cccttttttt tcccaaagg g 351

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<210> 30851
<211> 516
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062b12d1

<400> 30851

gcattccaatt gttctaggtt cataataata ataataataa ccaaaagaag atgaaaacgg 60
 agagtaacaa agcatggtga gacacagcta ccgaagctac taaaaacaag ggacagagca 120
 aacaagtagg ataactaggg agcagagaag tagtagcaat taaagcaaac aagaaaaata 180
 gacactcaac taacaaaacc taataacccc aaatcaagat ggacctaatg ggaatagaat 240
 tctcatcaaa acttatctgc cctgtccctc ttctctttat atgcttttca aatttaggtt 300
 atggttgga tggctctcac ttggccatca tgactttgac aaactcctca tagttgatct 360
 gtccatcacc gtcaacatcg gcctcacgga tcattctatc cacctcctcg tccgtcagct 420
 tctccccaag atttgtcatg acatggcgga gctcagctgc agagatgaaa ccattctgat 480
 ccttgtcaaa cacacggaaa gccttcttaa gctcct 516

<210> 30852

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062c01d1

<400> 30852

aaactgaaat atactcttgc taaataatct ccattaacca aaagcaaata catacttgta 60
 cacattggat gtacaaaaaa aagttattta catcatagtg gttatcactg aaatactatg 120
 tttggtcagg cattaaaaga aactcattat tgggattgag caggagatgc tgatgtttct 180
 ccagtcttct cttgaagcaa cggcatggtg ttgaccttt caacgtttga tacttgatgt 240
 tcaactgtctt catcaaatct atccacacta tgcaaaaata ttcttgacat aatatacaag 300
 aatcacgaca catgttcaaa aaactttctca aacgtttctg agaattagac atttatgatt 360
 tgattatgat tatagaaatt caatactaca tcttgaagat aactagatag tagacaagct 420
 aattttcatg tagccgagta acatccatca caggtataat ttgcttttgt tttaatcttt 480
 aagttgggtt ggacattatt taaaggggtgc tttattt 517

<210> 30853

<211> 379

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062c03d1

<400> 30853

agaataaaact cggaaagacc aacattgaga ttgagagaaa aattcaaaaa ctggtagaat 60
 ggccaacctg ttcacctgag gtggacacgt tcgggcactt cccgctcaac aatattccag 120
 acgttgcgag aacagctact gttgcagtgg gctctaacca atcggctgag aaaacacaag 180
 gctgggggtac gagtgggtctt atgcaccctc cgccctgaga cgacaggctt tttccccctt 240
 ggccccgaggg agctctcagc gatagaggtc aatggcatta atgccaaaaa aacggacccg 300
 gaccctcttt ggggggtgggc gcaggcccac cagcctcgga gttttgggat aatgggttgg 360
 actacgaggg ggaggagag 379

<210> 30854
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400062c05d1

<400> 30854

cgcccccttt tnnntttttt tnnntttatt tattttatat tatttttnnt ttgtttttat 60
 ttatatctta tttattgttt tgatagttat tgaatatttt attgaaatca aacttattta 120
 attttaattt gttattcttt tgaattcccc tccaacaat cgggcgctaa ttaaaaattt 180
 tttccgcccg ccacacaagag ggggacagtg acaatataag aaaaaacccc caggaaaact 240
 actggcctaa ccgttcacca cccaagcgg gggcaaataa aatatgggaa aaaaaaaacc 300
 cccaattcca gaaggggggtc ttaaaaaaaaa acccccggat aagtgttcgc aaccaaggg 360
 aaaaaaaagg aaaccccccc cccgcttttg gggggaaaaa aaaaaccccc cccccgggaa 420
 ggaggaggaa aaaaaacttc ctgggggggc gccccccc 459

<210> 30855
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062c09d1

<400> 30855

gacaattaat catttcatat ttcacacatt cataacaaac gtaggtggga tattagagta 60
 ctattattaa tgggacacaa ttgagttcaa cacaaaccga acttattttc aaggagacatt 120
 attacagacc cattaacat caaaggtctt caaatgtttt gggaacacat ccaacattac 180
 acaacgagct taaaaccccc cacggagacg gaggacaagg tgaaggggtg attccttctg 240
 gatgtttag tcagcgaggg tccttccatc ctcgagctgc ttgccagcaa aaatcaacct 300
 ttgctggtcc ggggggatgc cttccttggc ctgaatcttg gccttcacat tgtcaatgg 360
 gtcagagctc tccacctcga gggtaatagt cttaccgta agagtcttca cgaaaatctg 420
 cataccacca cgaagacgca acaccaagtg gagaggtgac tccttctgga t 471

<210> 30856

<211> 303

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062c10d1

<400> 30856

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 tcttaaccaa actcaaccag gaatgacttt ttaggcaa atgattttg gggctttttg 180
 gggacccttg gggtaaacc tgggaccctt accatcggga ggtaactttt ttgggggggg 240
 agaggggaaat ttttttgccc cacccaaggt tttggagttt tttctttgaa aacctttact 300
 ccc 303

<210> 30857

<211> 331

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062d01d1

<400> 30857

aaccccggtg agagggcaaa gaaataaaaa tttgtcatta atcaaaagtt gacagacaat 60

ggagcaatgg ggttactggg tacattttcc tttctaagga tcattttacc cccaccaca 120
 ataaaaccct tttgttctta aacaggagtg attataaacc ccatttttca tttgcatcgg 180
 gtcagaatth tccagcttca ggatgcaaaa tactcagggt ttctcaagca acagctctgc 240
 accttaaaaa catgtacact tatttgcaat gcttgcccc ccccccaaa taacggggtt 300
 cattatcaag agcccttttt tctgggaccc g 331

<210> 30858
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062d02d1
 <400> 30858

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 aattgctcgg ttaatatcag atgcaagaat aatattaca tataagcaca tttatgagcc 120
 actaactttc cctgaccaac aaaattagca tgctgatttg aattaattgt tggaacttgg 180
 aacatactca tttcttgaac agtctctctc tcaaggtagc acagtaaaaa cttccacatc 240
 tttcattgca gggctcttga ctgagtattt aaatgtccaa ccatggcagg caccagcatg 300
 ttcccccttt ttattgaggg caacaatggc tccccaaaaa tctggaaatt ttcttgctat 360
 tcgtgttatt gcatctttag cagcaagttt gggttccatt cccaacctca tactctccac 420
 aacttgatag catggaagga agcgcatcat gatgtcacca tccccagttg cacaacatgc 480
 accaacttca tcaatggcat atgctgagga tccagcaatg gga 523

<210> 30859
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062d03d1
 <400> 30859

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 ataaaatgaa gaaaagagtc ctgaaactag agttttggaa gaatattttc ttttttactg 120
 ggatatcatc aaccccagag agagggtttc ttaccactcc ccctgaagct ctttagtaaa 180

acaatgaatg acaaaataat ggggggggaa aaatagatta tcattcgggt actttgcagc 240
catccctcgc ttaagaatca ttacattccc tctccttgct ccacccaaaa aaattgacaa 300
aaagaatacg ttgtgaaatt aaatacctat cacaagatgg aatgggtcaa atttgattag 360
actacaagct gatccagctg tatttgctca agccaggctc ctagaacaga atgatcaaca 420
gactcaactg gcggatttga ctttgattt gaacttggcc catcaacaga tgcaaoaggg 480
gccagaacct gtcaactttc tttttt 506

<210> 30860
<211> 485
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400062d05d1
<400> 30860

gagcataatg gtaatcagtt caattaatgc tgctaaaaaa gtagcattca aatgattaat 60
cacacaaatg ttgcatatac atcgaaatat agcgcatata ttagtaccat catcttaatt 120
aattaagcta aatgagaata aagaaaacta attaagcttg atttccatga attatgaagt 180
cttcaagggc ttgcaaatac tgtcacggct agctagcaca cattttattc aggaataatg 240
aagtatagca tcatgagcaa tcagccttag atttttttta gcagattgac tgctcatgat 300
gttatatcat ttccatgaat ttacctctat gcatgctacc atatttatat gtatatgctg 360
ccccatttgt aaaaaaactc ctaacgaaag cccctccta gggctggagc ccaataatct 420
gctccattgt cacttccaac ttgcagtgtg catgacactg gcaccagaca caacccttta 480
cttct 485

<210> 30861
<211> 466
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400062d06d1
<400> 30861

cccagaaatg gggtttaata ttataagcag agattcataa ttcagattag ccgaactttt 60
tacagaagcg accaatttcc aaactttaaa aaaaaaaaaa aaggaagcac ccttgggctt 120

aacacaccca tcacaaggcc aaaacacttg aacttgggtga agggcaaaac atgaccactt 180
 tatttttaggg gggttgggtt aacacaaaac accagggggg ccgaaaacct tcccagacat 240
 aatacatagg tttttagctc cacattaaag ggttatcatt attcctaatt aagggttttt 300
 tttggttgaa gcttgctctc ccaacacctc acttgcaagt gcagggggtg caggaacaat 360
 ttggtccaca ttgagagcca tcgttcttag ggggcacacc catttcagca cccttaaatg 420
 gggccttaac agggggccact cccatgaaca aggtcttggg gggggg 466

<210> 30862
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d07d1

<400> 30862

aaaagcaccg atataatccg atacatatac ttttccactg tacagaaaaa aactcaacat 60
 atttatttgt ttaataatac cttagaagca gttggcaaca aaacattact tgagtatcct 120
 tccagttctg ctttctatac aaagggtgtg ccttttctcc agaacaaaag gacaagaggc 180
 tcttgagcag gtaggtgggtg gtggtagcca agtgtcacgg acacatgcaa catgtcactt 240
 atcagcattg attccaaata tcttgacctt gtgcatgtgg ggggaactttg caacaaccag 300
 cacaatcact gcaacagtgt tgaagagcag cattggattc tgatagtctg ttgtgtgtga 360
 ggctattaag tacagcacca aaggaacaac tgtgagaaac ttctgtttac gagtaagctg 420
 cttttcattg tctacctgct cccaccaagt caatctattg tagatccctt gatcctctgc 480
 aaatg 485

<210> 30863
 <211> 508
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d08d1

<400> 30863

aatcacccat ataataatca agtttcatta tgtttcagac agggtaatca aaatggaggg 60
 tttctaagtc atgcaaatga ctgcaacaac aacaataaca gaaacaatgc tttagtcttc 120

attgataact cagaaaaagct ttgaaataaa aacaaattta ggcttgtcaa tacattaagt 180
 cctgctttat tctcgttggc tacattccgc aaaagggtgtc tagtcactca agatgaagtt 240
 tataatctttg atattattcc ttaacgaagg agaaacaaac actgaaacca aaataatgaa 300
 tgccccccca gtcaccagct gcaaggcacc attgcttcaa tgtgttgatc taccacctat 360
 gcaaaaaatg aaactagtat tacacgtctt tcccttggtt ggcaataaaa tttaagactc 420
 ctccactccc aaatattggg agtgagaagc tgccaggagg gctgcaccaa tgccagagcc 480
 atcattagca tgctcaatga caatgggc 508

<210> 30864
 <211> 568
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062d09d1

<400> 30864

actaaaaaac cagcttataa cataagcttt aaagcctgta tgtgtccact aaaacacagt 60
 gaaaactgaa aagggttaaca tgatactgaa aacataaatc gacatgacat actaccaaact 120
 attgtctttc ttgagaaaact aaatccaacc aaaggacatg aaatcagaca tttaaaaata 180
 aatagtaaat caaaagcaga aataaactaa atttagtcta cttcctcaat ctttggcccc 240
 gcaccgcttc cagcagcagg aacatcatcg tccattgcac caccacgctc tggaccagca 300
 ccaccctggt acatcttggc aatgataggg ttgcagatgc tttccaactc cttcattttg 360
 tcttcaaatt catctgcctc tccaagctgg ttgctgtcta gccactggat ggctgtctca 420
 atggcatcct caatcttttt cttgtcagct gggtaagtt ttcttccaat cttctcgtct 480
 ttaatggtat tctcatggt gtagtagtag ttcttcaatg cattcttggc ctctaccttc 540
 ttcttgggct cttcatcttt tgatttga 568

<210> 30865
 <211> 408
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e02d1

<400> 30865

ataaaaacttc gttataaatt aaatgcaact taaaacatcc ctcagcagca aaggaaatgg 60
 actaaaaccc tatagctgct tgtgaaattc gaaatatctc agactcttct taccatcaaa 120
 acaaaaaaca gtactcatca aaaacaaaca gcaatgaaaa ttgaccaccg ccgatcaaga 180
 acctagtttt gaaagttacg gctacatgaa atcggcagaa acttaaaaaat ataacttaaa 240
 caaaacacct aagactctgc aaggataaaa ctactataaa ggagtaacca cgatgatgat 300
 cacatgtgct agcaaaattg cccaaatgca atcacttctt cttggcagcg gccttggtga 360
 ccttggtccc ggtggggtct ttcttctcaa cactcttgat gactccca 408

<210> 30866
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e04d1

<400> 30866

aaaaaacggtt attaattact aattcactgc atatacatc caaaataaat aagtaataac 60
 tgattaagtt gcagttgata tggatattga gtaatgatgc atatagagtg gagtcagtag 120
 aagtttagaa tattggtggg agtaaagttt tggagccatg gactattcaa ctgagcccaa 180
 aaggtatctt gggccaatc cgagagcatg ggaagctgaa ggtctggaag cttctccttc 240
 ccaaagggca tttgtagtga tgtgccacaa gtgcttttgt tgggtgtctt taagaccaat 300
 tggttgggta ttttttcttg tttaggcact accatgtctt cagtttcaga ctctttctta 360
 agaacatggt gcaacaatgg caagggcagtg ttttgcctt cctgtgggct gctaaaggac 420
 atggtgtccg tggaggaagg agaagcaggg gaacc 455

<210> 30867
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e05d1

<400> 30867

accacattgt gatTTTTTTT ttttttaagc aaacatatta tagccttctt atgggattga 60
 aaaaaaagga aacccccgcg acacatgcaa attccaaggg ggaaatctct cctcattacc 120

tagcatgact taaatccttt ggaactaggt tacttccttg cattggaccc tatatactta 180
 taaatttttt ttactaaata ttgagaaaaa gggatgaacat tttggcttat ttcttcccaa 240
 agaaaattcc cttggaaaca caagattagg tgggcagagc caattcgaca cggacattgg 300
 tgttggcccc ctttcttttg aagatgctta tgacaagccc cgcttatagg tatgggtggg 360
 gcgcaaaatg aaccatcaaa aatttgctt gactcccatt tgtagcaag ctc 413

<210> 30868
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e09d1

<400> 30868

agccagaata tcgggcaaata ccaaataatg ctgcattgtc acatagtcta cataacctgg 60
 gaaactaaca gcaatcaaata atgttcgcca tttggaattg gaatttgaat acaaatacag 120
 cgcatcaata atataaccct atgtacacag ccaatatctg actgaaattt gatacagaat 180
 agtctcaatt tgtatcataa taaaatggca cagagaaatt tatgtgaagg taaaggggaa 240
 gtgtatcagc tgggggtttta attcttcggc tttcatctac ttcattcattg gctccttctt 300
 gcacgttcac atttccttta tctgcttaag cactgctgac cttgttctta cccccaagg 360
 tccaatgggg ttttagccgga gtacgctca atgccttcac tccgaatggg ttgttcttgc 420
 tcttgagaca agttccaaca taagtgttgc agatgggata gtcgttaggg c 471

<210> 30869
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e10d1

<400> 30869

acataaacac actcgttgca ttacatacta acttttatgt gccttgacat gtctaataaa 60
 aaccaagaaa agcctaattg aacatatgta atcttcatat actcttgatc aacagtgcc 120
 acgcctaatt tggatgataag ctttcgggtc tttttatgaa aggccagaaa ctactaacat 180
 tcacttcatt cctgctatta cttttgctac tgctactact ggtgttgcta ccagaacttt 240

ttatgcttcc actattaatg ctgcacacac cactatcact ctcttcacca gaaccagaaa 300
 ggctcttctt ttttcaccac tccttatcaa ggctctttaga tccatgatca gaaaccgaag 360
 ttttaggaga caccttgta gaaccactat tctaagga cttattttta gtcttctttt 420
 taaatcccaa agaaattgga aagaccattt tgagataaaa cctccactt tcaatgttcc 480
 cacttttctt tacttgacc ttttt 505

<210> 30870
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062e11d1

<400> 30870

ggggactaat gaactgtgta aatagggatc atatttaata ccataaactt gtacacaaac 60
 atattttaca gtgtacttac actccagcaa atctaaacca agagtctttg ttatgtgcat 120
 ggaagatatt ataagtagaa acgaaataaa tcacaccagc cacattttcc ataagttcaa 180
 ttgcatgtcc aagaacataa gttttgaact gataaattat ataaattaat aagataggta 240
 gaaattttgt agtggcagca gaaataggaa catctttgtt gtgagtacc agttttaggc 300
 taaaccgggc actagttttc agcctttgct tcaatttttc attattttga cttgaaagga 360
 atggccctga gcactatctg atggtataaa gctgcaagtg ctgcccacat aaaaggccct 420
 acccagaaga tccaatggtt attccaagct tggtccttgt tggatacaag ggct 474

<210> 30871
 <211> 517
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400062f01d1

<400> 30871

agagaaaaca aacacagact atactaataa aaaatattcg caaaaggaaa agtttgacaa 60
 caaaaattg taaaatccaa tctcaaacag ttaacaaaaa agcaaccac actaaacaat 120
 caaggtgctt gttgttttca acatctactc ttccagtatt gttcccttct cactaacata 180
 aatgccatcg agaaatttcc tgatatcctt ctttttaaca tggcatttct ggtaaatgag 240

agcacaggac ctagaacaaa gttcaatgtc gttcccatcc aaaatcaatt catctttaac 300
 tttttcagat cgaacaacgg aaacaccgtt aagaaggtec acttttctca ctttcttttc 360
 gccaaaggaaa tttctgatct caatagactt gttgtcgttg ccgatgcttg cgttgatggg 420
 aaaatgggca taaacgaacc tcattttgta gcggtagccc ttggtgacgc cggatgatcag 480
 attctccacg tggtcangg cgggtgcaat ggcggcg 517

<210> 30872
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f03d1

<400> 30872

aactcgcgaa ttgttccttg atgttatgca tatgcatata caaatttaca tacatgcatt 60
 tatttgcaca aggttcataa cagtaaagtg cagagggggg attcaggggg actaggtgtc 120
 tgtaagaagt atttttcaca gtgcatattt ggcttctatt gcaaaccaaa tggaccttat 180
 gatctgaagc ttggcacaga acacagatta tacaatttta agctacactc tcaaacaga 240
 taagctatga aaatggacat tgatcactga tcaatcatag gtgcatgaat tctttgtgaa 300
 tttgataggc tttgatcgag aagagttggg gaccaagggg caagtgattc acttacgatg 360
 ccttgtcttg accagtttac ccactacatt ttcacgcgaa cggatttcaa agtgtaatgt 420
 gagtggaaact tcaacaccag tttgggatac agata 455

<210> 30873
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f04d1

<400> 30873

agccagggca aatgaaacga cttgagtcac tatggatttt aataaccatt gtcacgcaca 60
 taagtaacat tagatgaaat aaggatttca taatagaaaa aacttggttg aagcataaaa 120
 ttgtttattc gtgaatgtgc ataaaagcac aataagacac catacacgaa acacatcctt 180
 gttagagcca gaagccgcct cattcaccta tagttgcggt atacgggagt atacatgcaa 240

ctctcagcac acttcacaag attctgagga cgaggaagac gggtagccaa gccagttcg 300
 tatgccttgg cagcaacatt tgcagctata ttagccgaaa ttcttttgat attagagaat 360
 ggtgggtaaa tcaagccatt tttgtagttc tctcactca cttgttttagc caaggattcc 420
 gaagctgcta aaagcatatc gtcattgtact 450

<210> 30874
 <211> 326
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062f05d1
 <400> 30874

acaaacaaac ttattgtgat ttacttcatt ccatgggctg gacactacag caataatcat 60
 aatttcaaaa tcatcctctt caacttgaga atgaattact tcttgccact ttgcatcata 120
 gaaagtgaga aactttcttc acatacaact ctgccttcta ttgttggaga ggggtggatga 180
 atgaacaaag caattatgca gcagtcaact aatgttgcaa aaagatacat ctctcatcca 240
 atcacctaga agcgagccca gcatctagtg cattgtgcaa tacagtctcc cttacaatca 300
 acattataac ccaaaacttt tggatt 326

<210> 30875
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062f06d1
 <400> 30875

actcaaagca tatatatgtg atctgtaatt ctgttaggaa tgacattgtc tagtgtccat 60
 tgtttgacat ccaattacac gggaactagt ttttcgcaaa ggaaagatgc tagtcacaaa 120
 attttaggag tgtaaattctc aaatctgtgc gcaggccaaa agtcaagaat caatatttgg 180
 ctcaggaaaa aaaaggcaaa taccaggatg taaatactaa atacaaaggc acaaagctac 240
 aaaccaacc accattcata tgtctaattgc cacgcattaa cgcaccaagg gtcattcacag 300
 aactccaat ggatacgaaa gcctgcaaaa tgagaactat ctgccgtctt acccattgaa 360
 atgcaagctg cattaagaga aaatcgaggt tctgtataaa tgtttttggg aaatttaggc 420

ttactattcc tgacgcagtt ttataggtag aaggggaagc cctacagtac cccgctgaaa 480
 tgtagaaatc tatctcaatt caaagtacaa tattttttat ctaaattacg ggaacaagaa 540
 gcttaagggg gaacggaaaag ggc 563

<210> 30876
 <211> 484
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f07d1

<400> 30876

aaagtgagaa ctttgaaata aatctgggac actttatggc ggctattatg aaaggaagaa 60
 cgttcaaatg cattgcatag gcataactaa accacatttg acattaaaca agaagctaata 120
 ctccgtctgt tgccggttgg gtcacccac actgcaccaa caggctagtc aggtcttctg 180
 gggagcaaac tggatacttg tctttcccag ccggtgacaa aaaaacctgt gcaagttcaa 240
 gcttatccga ggtcagactt gtgctggcca tagtcttact taatacctta agtgcaagtt 300
 gaacagtttc tttccttggtg atatcatcct tgggtggcctg tttcacaatt gactgaggtg 360
 actggttggt ggcaccaata ggtgtagctt tccaaccacc ataattatca ctgggggtcac 420
 ttgtgtaaag ctgaaagccc atatgtcggc ccctaccaga aaagaggaat gtgactacta 480
 atgg 484

<210> 30877
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f08d1

<400> 30877

gaacttcaat aataatgaca tgcaattaaa tatgaccaac actaatggca gtacccaaaa 60
 acaataaagc agtcatttta agttaggcca acatctagca agaacaattc acgagctaaa 120
 taaaagtaac ataaaatcat gtctccttag aaaggggtatt ctttgcagcc tcagcagccg 180
 ttttctttgc atcaatctca gacacaatgg catcaatttt tagcttcagt gagtacagcc 240
 aatacctagc aagaacaatg ctgcataac acaaaacaga aaattatgtc tccttaggag 300

gggctttctt agcagcctct gcagctgcct tctcgccttc gatctcagca acgatggcat 360
 caatttcggc ttcctccagt tgacgcagac cctgctcctt agtcatacacc gcaacttcta 420
 tgttcttccc tccactctca acaacttcaa gcaatgcgcg aatagccaac ctgacagtct 480
 tctggccaga agtgctctta ttgttctttt caggaactcc cgatc 525

<210> 30878
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f11d1

<400> 30878

accatcttac ccttgagctc tgatttcata taagttaaca gagtcaacaa tcaatcatga 60
 attggtagat tgtaaatcca aattttctagt ttacaagata actgtaatca tccataattg 120
 tagaacaac tccattgag atcttttaaac agaaacgtgt atacctacag aattttattcc 180
 tccttgcttg atggcctctg gtcagtaa atagagagggc catgaagagg tataacggat 240
 tggagccaag ggtatcttca tgtgtttatg cattattaga atgaaatctt cactgacctt 300
 catctaaggg acccacaacg cattttttcca ataagaattc agcattaacc caagcatggg 360
 ttttatctga ttcaagaatt aaggaaaagg acggaagtaa acctaacaaa atagaaactt 420
 tatccatgtt ggggaacaaa tgaacatgtt agggcaccta cggttgaaact tgaatca 477

<210> 30879
 <211> 321
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062f12d1

<400> 30879

ggggagaaat ataaaaacat ttttttgtac caaaaaaagt gttaaggggt ttttttgtaa 60
 aaaaaacaga aaagaaaacg ggcgggaaat aaaaaataga tccccaaaaa cccaaagaag 120
 ctccccgaag ggtctctctg caaagggggg gggggggcggg ggccaaaagg gggaaaaaaa 180
 aaggtcatgg gaaaaaacag ggggtgcaata acaacaaaaa gggggagggg ggcaatgata 240
 ggggggggata gggtttttaa ctccatgatt gggttttcaa aggcattgtt tttttggagg 300

ggggcgctgt ttttttgtg g

321

<210> 30880
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062g02d1

<400> 30880

acataaacac actcgttgca ttacatacta acttttatgt gccttgtcat gtctaataaa 60
aaccaagaaa agtataattg aacatatgta atcttcatat actcttgatc aacagtgcca 120
acgcctaatt tgggtgataag ctttcgggtc ttcgtatgaa aggccagcaa ctactaacat 180
tcacttcatg cctgctatta cttctgctac tgctactact gttgttgcta ccagaacttt 240
tcatgcttcc actattaatg ctgcacacac cactatcact ctctccacca gaaccagaaa 300
ggctcttctt cttccaccac tccttatcaa ggctcttaga tccatgatca gaaaccgaag 360
ttctaggaga caccttgta gaaccactat tactaagga ctcatTTTTA gtcttcttct 420
tagatcccaa agaaattgga aagaccatt tgagataaaa cccttacta 470

<210> 30881
<211> 502
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400062g04d1

<400> 30881

gaaataaatt tagaatttca tagaaaaaaa atgttaaag attctgcttc tcttgctctc 60
ttgcatatac acttcatgat atttatttcg caaaaaaaaa aatatactac atggtagtgg 120
tattgattga caaacacaag gttcatgata aacatcgtgg caggatcatca tatcagtaga 180
tacgatgaag ttgtttccct tgtgaggaga ttcatactgg gttatcaaca tgagaaacct 240
gaagcctcca agtaacaaac tggatatacg catagttgat gcccatagca actccaaaac 300
ccaaaactga tgaaagtagt atggcatata tggccgtcaa atgcaacata gtataaaata 360
gatgcacggt taaagccaca agggcaaact caagagcagc atatgtccat atatactctt 420
taattggtag gataactgca aaaaaggaag ctaggaggcc caacgtaaag gcaaagtgtg 480

atgctataat aatcgcttga gt

502

<210> 30882
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g06d1

<400> 30882

accaaagcaa tcaaacttgc gcttcttgca tatttttgca aatggacata acatatataa 60
 ttacgtatatt aatatatatt atgcaaata ctaattagta gtagagctaa tagtagtaat 120
 aatagcacta ggaataatat agtaattaa agaaaaatta agaagctagc atcagatcat 180
 acacttgatga ttattttgac cctcaggaat gttgactggg ggaatcacgt ccatcgtctt 240
 cgccgtgatg ttgcccgga ctgcccgag gcttcgagac gccgttcgcc ggaatctgcc 300
 tgtaggcatt aagggctgca agcatgccta agttactttc acttagaagt tgagcaccgc 360
 cgttgccacc accgccgtca ccgtcaccaa cgataccgga acctagttga cctccgggca 420
 taaggttcat cggagaagcg aaattcatga aatgaatgcc acctggagca gacatagctt 480
 tctctataca caccactatt tccaacagag ggaattggcc aaatgggatt atta 534

<210> 30883
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g07d1

<400> 30883

gggaccatta aaaagagaac ttttatttaa agctaattaa cttagccccg gaagggggccc 60
 ttccgacttc aaaagggcgg ataaattaag gggttattcc gggctctttt aaaacaattt 120
 ttgaagtgtc atttggaactc gggggcccta ttttaaccca aattatgctt ccgctaaaaa 180
 ttaagtgcaa ttgagcgggg ttttgggctg gttacttata gggaaaaaga gcccccaaa 240
 tttttcaaac cctgggtggg gtttggtttt cataaaacac ggacaacacc ataatttcaa 300
 ggggggcccc ccgcccttg gggggctcctt gtttttcatt acgaacaaa ttggg 355

<210> 30884
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g10d1

<400> 30884

ctctaacc aa tcaaatttta tggcacactt gtacgtaagt ctgaactggt tttccaagac 60
 atgcttgctt ctagataact ttttgtcctg aatcaaacct tttattttat acatcttgaa 120
 ggcattcttct attctgacat tatgcttaga ccagatgcaa gtgatggaat actttgttca 180
 tatctgaaaa aattgcttgg atcaaccttg gtctttacct ctaccagtct atcatagttt 240
 cttttgaaat acttctcacc ccagactcta gcctctgcat aactagcatt tccagggtcca 300
 ttgacaccta tatcaacgtc tctatagttg atatatgaac ttctagggtga acttgacaca 360
 taagggtgtca tataatcata gagcctccga atccgatcta gatattctgtt agcaacatct 420
 tcaccctcct ctttccaagt cacagagtat tgaattttat aaatggtacc agctctatgt 480
 ggaaa 485

<210> 30885
 <211> 407
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062g11d1

<400> 30885

aaacccccca aacaataaaa acattttgat ttttgggggg actggaaaca taaaaaccaa 60
 ttttgccttt tataaattta aacagaaact ggctcaaaaa tccctgggag aaaagaggct 120
 taaactatcg gcctcctaac tgggggcacc taatttttgg cccaccatg aaaatcgaat 180
 aaaaggaaaa accaaaccaa gcagaaccta caaagggtcca ataccctccg ccaattgcat 240
 aaaaaggctg gcttccaagg ggacctaacg gggaaactta taacatactc aacttacaaa 300
 tccatttttt aaactagatt ttttttttaa aaacccaaag ctttaaatac caaattagtc 360
 aaccctaact tactgaaata tggcacaaga ctgggggcat gaaaaac 407

<210> 30886
 <211> 389

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062g12d1
 <400> 30886

aaaaaaaaac caacaactgg attttttttga attgaatcaa aatcaattgc agataaacia 60
 acagatgggg gttgaagccc ttttttttcaa cccataaaag ggccgcacaa aaaaggcttt 120
 atgacaacat acagcccaaa cgtaaaaatg agaattgttt gataaaagtt cctagggccc 180
 acaaacttgg aataaaattg aaaaggggga tccccagca aaatggattg ttgcaattaa 240
 aaaacgtaga gctttttttt aattaagaca ttgccccttt ttggaacttt aaccttggga 300
 tgagctgttt gaccctggca acccttggtta cttacaaaaa caatctccat ggatctgcca 360
 caagcagcat tagggcaatt aatggggggg 389

<210> 30887
 <211> 367
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062h01d1
 <400> 30887

cattgaaaag catccaattt taiaaaaaaca taggggaaat aaacgataag atctgggaac 60
 caaccacttg acttatgggt cctctatata aaccgaacgc ataaaagcat tagacagtgt 120
 tatcaatctg acgcaaccgg tgtgtgtgag cttacgaggt aaattgttat aaagaatatt 180
 tattctcgca aacacaggag ctccaatctc ggttgccaca atccataaga tgatagtact 240
 ttatcgccac atggttgtaa aaacctgctt actttaggcg gtggaatcat atatcccggtg 300
 agggcttata tgggagtata ggagaaaatt gttttgactg agcaaactat ggaggatgat 360
 gacacct 367

<210> 30888
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400062h02d1

<400> 30888

caatgtgaag aagtttggtt atgattaacg aaataatddd gatatgtaga ttaaataaac 60
 acacgaagta caaataaaca ttggtctctc taatcacaaa ggagattaag tccattgtgg 120
 tgtgccttca tgactgaatt ataccaaagt actaccctta acatactcag taaaagccag 180
 agcaatcaaa cccaacatag caaatcttcc attccacagt tctgcatctg aggacatgaa 240
 ccctttggac ttagactcca cgctgacacc ttggaagagt ggaatcaagg aagcaagggt 300
 aaggaccaca cttgtcccca agaaccatgg gatgccacca ttggatattt gttctaacac 360
 accttgccct ttggtactt ccaactgccat tgcagccaca aaccaatca tggccaacct 420
 tccattgatc ctctcaggtg ctggcccact gaatgccaac acatcagaaa acttagtgct 480
 cacctttggt gaaggagcag agactggctg tggcttggtt tctactgatg gtggcggtgt 540
 aactggnngt gcaggctcac ttg 563

<210> 30889

<211> 514

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h04d1

<400> 30889

acgccactct agaacatcat tatttattta tttatttatt tatttatagc tcttaacaca 60
 tataattccc tggatacaac atgtatactg gtcataattca actctagaga gctttatctg 120
 atatgatcat ccttaacata ttcaaagata gctaaatact taactgtata atatatcaca 180
 caaacgtaga gtgacatata tagagtaaata aataaatata agtttaattt atacacacaa 240
 actatgagta tataacatcg ttatccaaat attcaacaag aatttacttt attaccgcat 300
 catgttaaaa tggtgcgata aagtggtgaa atcctattga atgcttgtgt caagatgctt 360
 tgtaggatca aagtgtgtat aaattaaact gggtatctat atatatatat atatcccaca 420
 ctttaattat aagaaggctt aattaattaa caagttggaa agggaatccc acaagaagca 480
 acggtttttc gggcattagg agagttaaca tact 514

<210> 30890

<211> 295

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h05d1

<400> 30890

gagaggacat atacgccact ctagaacatc attatatttatt tattttattta tttattttata 60
gctcttaaca catataattc cctggatata acatgtatac tgggtcatatt caactctaga 120
gagctttatc tgatatgata atccttaaca tattcaaaga tagctaaata cttaactgta 180
taatatatca cacaaacgta gagtgacata tatagagtaa ataataaata taagtttaat 240
ttatacacac aaactttgag tttttaacat cgttttccaa tttttcaaca agaat 295

<210> 30891

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h06d1

<400> 30891

agacgcgaat agaaaaacat ttttataaga aaattttctga gatgttatat ctcttttatg 60
gtacattgta cagagaggag ctgttccagc cctctagtag acaggaacat aggacgaacc 120
atgcaaattc atttttcacgc tcaaattaat ccaagctcaa gttaatatata ttcgaattcc 180
aaaattatta attgcaaggg ctattaacag tacaccacca tgaagctgac aaattggttt 240
tgaggatgca accctgaact tgatgtcttt cttgccacgt agtatgtact ttgttattta 300
tttccaaggg agttttaaag tatctttcca ccatccttgt tttgagcaat ttgcaacgat 360
tttgtccaac cgtgcaatga cctgagaaaa tgttggcctc acaacagggtg ttggatccca 420
acattcctcg atcaactctt ttaactctgg aggataatgt tttgttttga t 471

<210> 30892

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400062h07d1

<400> 30892

cactaagggtt acattatgta ctaattgtga agaaacttac attttccgtt gccaacacaa 60

gaaaaaagaa ataaagaagc aagctaggat cttgtcatta ctaaaattgg agccaggggt 120
 atattacaaa tatttcacaa tttcagaaaa ttcagtaagt ggaaagctac actacattgc 180
 agtggcatat aggcaattca aacagcaact ggtgagggag ttgaaggagg gacccgattt 240
 tcagcaggaa tttcaacaaa ctcgacagg agagctcgga attcatctcc agacattgtc 300
 tcagtctcca atagaacttc cacaatcttg tcaatcgctt cgcggttgct ccttatttgg 360
 ctcaacgcaa tttcatatgc ttcattctgag agtctcttga cagcagcatc aatgtcttca 420
 gcaagctctt ttgacattga gtttcttgcc atcattctca tgataacatc actttgagct 480
 gatgagtcca cgagtga 497

<210> 30893
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062h08d1
 <400> 30893

gggaaaggaa acatgatcgg atcctccttg agtccttgta agaaatgttt aaaaacaaaa 60
 ttatgagaaa tacaaagctt agtcttcaga catgctcagt agaaactgcc tttttatttt 120
 taccctacc aaactagaag caatacacia attttagtgtt aagactggca atactcaaag 180
 attgcacagt cacatggatt tcaaaactca tcatcagctt tctctcacag ggcctcaggg 240
 ccattaattt ccttgtctgc gatcacagct ccgtcaggta tttccagctt cacaccgggt 300
 tttgcaagaa tacttgcttt tcccttaagg attacaccag ctccaaacca tacattgcct 360
 gccactttta gactgtcaag ctcaacaata ctggggattg acttgaaccg gctcaagaaa 420
 ttgcttacct ctttaaattc tggccccaat ttaatg 456

<210> 30894
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062h09d1
 <400> 30894

gatgcaaaac tgagatgtct atctataaag aaaaagggaa ctcaacaaca tcatttatgt 60

cttacccaca ccatactccc ccaaaatatac aaacgcagta aaagtaaagc acaaggggga 120
 acaggcttca aggggtacagg accgtatgaa gaacaacaac ataaatttac actttcaagg 180
 cataaaatta aatgaacctt ccaatccagg aaatccaatt accatagtgc ttttctgat 240
 taagttcaaa taagagaacc caaaattgaa aataggacag ggatatgaca aaagggttct 300
 agcaaggcct cacttggcac ccaagtttgg gaaatgccca ggatcttcaa tggatggagc 360
 aggtgcattg ttggtggaac tttcacggta aacaccttcg ccttcgcctt caccttgatg 420
 accacgggca cgaccctac cacgccttgg ggtatagtat gcttccccct cagcag 476

<210> 30895
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062h10d1
 <400> 30895

ggggggggagg gggagagatc aattactaaa cggagctctg tccaaagcca acaaaacaga 60
 gaaggagatc gagaaccagg aacactgaac actgggcaga gcagaattcg gcaattcggc 120
 ttccaaatcc aaactacccc aaattcctca acttaaattg ctggcgctctc acaagccata 180
 atgccaaatt catgttgcac gaaatcttca ctaggtctgt aatacttgtc tggagagtat 240
 aagcccaggt tagatacttg actagtataa aggcaagcaa atctctcaac ctgatgagca 300
 aagcgagaat tctgataacc agttttcata agctgtcccc atggctcgtg aaacctttga 360
 tgtaattttt tctgagcttc ttgatgactt aatcgcactc tctctcttcc aagctttaat 420
 ttatcaagtt cagaagataa cttctgcttg gaatcagcat ctggattctt gaatttgaga 480
 gaccatttca aatgatgtat t 501

<210> 30896
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400062h11d1
 <400> 30896

ccataattca aaaaatcgta tccattaata tttctgagca aagatcacia caaaaaaagg 60

aaagaatcat aggtatagat tctcattatc agatctatac acataaaatg attatatatt 120
 ttgcaaacca aataactcat taaagtgaat ccatgggtcac catgagactg ctagcagctg 180
 tagccggtga cggctagcaa aacagcaata gcaagtgcag ctggtgcca tatatttctc 240
 ccttgctggt ggtttgacga tgcagcattc aaattcagac ttggtgatgg tgctggtggt 300
 gtgtctgatt ctgctgtgga atcaggtggt gccgggggac ttttgcgaa aattgttggt 360
 gctggagctg gtgcctgatg cctcctgtgc ctgtgcctgt gccttctatg cttatgtgac 420
 gatggcgccg gtgctggtac ctctactacc ggcgttggtg ccaatgttgg tgggtggagga 480
 acaggagctg gagttggtgc tggctt 506

<210> 30897
 <211> 513
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400062h12d1

<400> 30897

caaaatatct tcataatcta tcagagcagt tgctactgta ttgtggaaca atttgtgatc 60
 tatacataaa ccaaaaacta acatgtttgt atcaaaagaa tattcaggca ctaaattaga 120
 aatttgttca actcattcgg atctaataat tacttcaagt gcccttcctt tctgtatgat 180
 tataccaaac gaaagatcca tatcattgct tacacccag gaaggatata ctgcaatact 240
 ccatttaact caatttcacg gacgcaaatt tttctgcaag atccatagct tcgtttacat 300
 gtgatgcctc tgtaccctga cccgtagcaa gaccaccttt tcctttacca catctccctt 360
 ttagaggccc caaagcatta ctacagcaat ctgccacac cagcttacct tgacctcctt 420
 tctctggcac ccagcacaa actacagcct tgttagtaga ttcattcgtg ctaaaaacca 480
 tcacagataa gcctttctgg tccatgactt ttg 513

<210> 30898
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063a02d1

<400> 30898

aacagaagcg accatagcat aatactcttg ttttagaata atttcataga tacaacagta 60
 gatcccgtaga tccagtattc aacaaattca tcacttcttt ctcacaatta cataactcat 120
 cgtaacactc tcggtattaa tatatatagc atatggtgta gcaactagct acaacgttgg 180
 aaaattcaga tatgatcttt tcctggttct ggtttatggt gtcacacac tcattgagaag 240
 tactccaagt ccaagtgaca tccacattcc gtacacagcg atcttctcgg tgccagagtt 300
 ctgttcagtg ggattaacct gtgacgaatc tgaagatgat gactcgtcct tatcagcttt 360
 aggtgccttt gcggtgtcac ttgaagggtc tggagccaaa gaggggtgatt ttgcagggtgc 420
 cttggttaact gcaaagaagt tccgtaggaa gaagcacttt cccacacctta taaatagcaa 480
 gatgc 485

<210> 30899
 <211> 528
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400063a08d1

 <400> 30899

aagaacaagc ttttattcca cctctcatatc aaatattatt cagcaattcc taattccata 60
 ttgggtttta caatgggggc aacatattaa aggggcaaag atccgtaata aactacatcg 120
 gctgagcctg tcatataaac atgattatct tcctccctcc attcaatctg aagaggctcct 180
 ccaggtagat caaccgtgca attcctccca gcacgacct caagaactgc tgcaacaaca 240
 gtagcacaag ctccagttcc acaggctagg gttgctcctg ctccccgctc ccagacacac 300
 attttcaagt gagaattaga caacacttgt acaaactctg tgttagtctg tgcagggaac 360
 acctcatgat gttcaaattt tgggccaatt tctgctagct tcaattcatc aacaagcaaa 420
 ttctggcttc cttctctact gaaagttaca cagtgtggat ttcccatgct gacacaggtc 480
 acatgccaga taactccatc tacaactagt tctgatttaa caacagca 528

<210> 30900
 <211> 526
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400063a09d1

<400> 30900

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acttaagtta ttattatctg tgtcaactgc tgttgatagt tttacaacat tgttttctaa 60
gatggatgat cgctttgaag attttcaaag tatataaaaa tgtaatatgg cagaatttta 120
ttccttggac caatgatcaa ttctcgtttg atgaatgtag cattagttta acaaacatct 180
gcaaggaat ttcccaaggg gctcaacacc atccacatat aaggatgggt ggcattgtat 240
tgctccttga agagttcacg tccaataatc attcttctga tctcactagt tctgcacca 300
atctcgtaga gtttggcatc tctcaagaga cgaccagtag gataactcatt cacataacca 360
ttcccaccta aacattgtat tgctgcaaa gcaacctggg ttgctctttc agctgcacaa 420
agtatagctc cagcacaatc ctttgggtca acttttccgt tgtcacaatc ccgagctact 480
gaatacacat tagacctaga agactgtaat gaagtataca tgtcag 526
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<210> 30901

<211> 475

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063a10d1

<400> 30901

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gcaacttata tcattgttaa gttgaaacgg ggaaaagtac attaaaaaaaa cgagaaaagt 60
aaaatccaaa tccaaaacat aatgacaaga caggttatta tctaaacttc aaaaggggtct 120
tcgcaaaatc aagaacaacc catgacaatt ggtctgctta atcgacttcc tcaattttgg 180
gtccagcacc gctttcactg ccagcagcag gaccatctc atccatgggt ccaccgcgat 240
caccaccagc tccttgggtac atctttgcta tgatgggggtt acaaagtctc tccaactcct 300
tcatcttgct ctogaattcg tcagcttcag caagttgggt tccatcgagc cattggatag 360
cctgctcaat tgcacctca attttcttct tatcatcagc agacagcttg gaagcaatct 420
tatcatcttt aattgggttc ctcatgttat aggcgtaatt ctccaatgta ttttt 475
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<210> 30902

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063a12d1

<400> 30902

gcacaaaaca tttatattca ctaatagaag gaaaatacac atagtaaata aaatagaaca 60
 taaaattaaa cctggatata cgtttaatga atttgttttc atacatccat gtaaccttgt 120
 attaaagatg atacaaatgt taatgttcct caattttgaa tcatatagat gatggtcact 180
 cgtttccctt tatgacatca gctttaccat aaactggagt aacaattcca agaatcacia 240
 agccacctaa aatgactatc agaatgccta aggaattgac cagaagtgcc tcattggaat 300
 agcgtgatat gatgttggtg acctgaagga atgtagcttt ttctagaata ccagtagcag 360
 ttgtggctat agccaagcaa tagatataga taccaaagaa cacatgccat ggcaataagg 420
 cagctctact atttcttgac cctcctgggt accaaaatgt tgcaaagcca gcacccact 480
 ggat 484

<210> 30903

<211> 466

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063b01d1

<400> 30903

ctccaaccag ttaatatcat caatttatat attcattact aattaattgg tgtcatctgt 60
 taattagtaa aaaagacaat gaaaacttgt acaacatata ttttggatat taaaagaaaa 120
 ggggctaata ataacaatga caaccctcat ttgcacaaca tctggcaaac aaccaagcaa 180
 taattttaat tttttagtag aaaaataaac aaaaggatta gtcaaactaa caggaacaaa 240
 gaaaatgaac taagcccctt atcatagtag atgaccaagg agaaataggg agaggatggt 300
 ggatacatca ctctgtgggag attctttctca catcatcttt gtactttctt caatcctgct 360
 ttacctgttg ttatacctga caatgtaaca ggtagcatat atgatacggt tgtttgaacc 420
 acaaaatcaa ttctatttcc aaatctttac agatttgtca tgactg 466

<210> 30904

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063b05d1

<400> 30904

gatgattaaa ctgtataatg aagatgagac cgctcaatct ttcactaata actgcaagag 60
 taaattaaaa ctctcgcaaa acattgatat cgttacaacc actgatccaa gtgaccctta 120
 ttttagaata cagttacacg cacaagtgc caacacaaga ccataggtaa aaacataaat 180
 ggcatgaaca atgagtcaaa gcaatggcag aacaataata ttaacgccac caccacttgt 240
 aacagtgcac tcagttcctc tgcagtagca gagaaattag acatagcccc tgctcttcaa 300
 actctccact gcaccttga tgatttgctc aacaggagtg aattctagac ctaaataaat 360
 cagcttcttt gatgcacctt ttcacttgc tctcaacaac cctgggtggg tatcctttgg 420
 caacttagcc acatcgtatt caggggtataa ctcagcaacc ttgtccacaa gatcactaaa 480
 gtgacgaata gattccacac ac 502

<210> 30905

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063b09d1

<400> 30905

aggtcaaatt tttttaaact tatcttccaa aactgtgtgg ttgccccac caaactcggc 60
 aagcacaagt ttcaaaatgt atactcttgt ataaatgtca agatccaaac ttataatatg 120
 taaatactga tatttattat tacttcttac cacaagcggc ttcttagatt atatctagt 180
 gaccaacaa ctaatcacia tgctcaatac tcttaaat tgggttttca ccatccattg 240
 ttattattca agaagagaaa aagatccaaa tccaaaaaca aactacaggt ccacatctgc 300
 agatagcctc caatttattc tcaagcaggt attagaaaat attgaaggca catccctcac 360
 accatcttgg aatgttgggg tagaactaac tacacagggt atttgtatag ctgaagaacc 420
 ttctgccaag ctggctcggtt actaatatca tcccaccaag cactcacatg c 471

<210> 30906

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c02d1

<400> 30906

```

agcgtaaagc acagtaagta tattggatac taattacaat aagttacatt tttgtgtgaa   60
aggactagaa ttataaatga tgcaccacta acttagttgg gtgcagataa aatgacatct  120
agacttaacc ttgtaattta ggtgaatgaa acattagcgg ataccggcaa agtatgccaa  180
aggccaaca aaagcagcat tgatgtaagt tgcaggctca gaatgactgt aatcactgcg  240
gtcatctgga aatccgtcat tttggtttgg acctccgact atggctgcaa ccaatatgtt  300
aggattagga ttcatcgaat ggaaaaatgg gttgaaacct ccatcacacc ctatgctttg  360
tggatgagct gctattgaag gcaaggaaga tcctctgtgg tgaattctct tgggaaagta  420
tggacatag cctacatgt aagacaattt tattgggttt gcacctaaa   469

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<210> 30907
 <211> 545
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063c05d1

<400> 30907

```

gccatcagaa ggttttttta ttgtattagg atgtcttgtg aaataatttc ttggacaata   60
atgctacagt gtttggttgc taaaatcgtc tgagatatca aacactaaat atgtttagac  120
ccgcacaaac ggctaaaaaa taagatgata gagatcatca catgtctact ctacgctcc  180
tgtggctcat tactgctgag cgcaactgcac tctctgagca ccaccatgca tatcctcatc  240
ctcatcatat gcctcctgct gagcttgttg cctcctcctt gtctcttcct ccatgttcac  300
atcatggagt gtggtctcct cacactcatc cagctccatg tctgacaact gtgatgttgg  360
ctttgatggc agaacagcct ccaaagcctt cacctgatca agactcaggg tatcaggaaa  420
ttccactgag aaatgaatgt aaaagctttc ccttcaggaa gtgcctctgg tagtttggca  480
ttcctcatc atttattgcc ttgaatgact caggcttaac aacctccca gggtttgatt  540
tgatc                                           545

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<210> 30908
 <211> 430
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063c08d1

<400> 30908

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ggaaactgat actgagtcac aacccttcaa gaattattgg gaaaagtttt gggaaagtag   60
acttaaaaga ctgaatcttg ctctctctct tgaatatgat taagctcaac ttaaaattaa  120
gtcttcttag gagcaagctt ggccttgatg tcatcaacct tcttagtata aatctggaaa  180
gcctgagcaa gaacatcatc aggacaggtt ggggttgaag tgaaaagagc tgcagctata  240
gacactgggc cagggagttg gctgttgaag gcaaaaagca caaaagcagg cttatcccca  300
ttgttcttct gatagggcac caaacctttt gggaacacaa agatttcacc cttcttaatt  360
gactttgaga tgagtttatt ggctgtggtg atgaatccaa catctagttg tccatccaac  420
acaaacacaa                                     430

```

<210> 30909

<211> 459

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c09d1

<400> 30909

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aaaaatcaaa catgataaag gttatataag ggggagtaat tacaccagta acttaggcaa   60
aacaggtata tattgatctt ggaaatagat ttgaagtga ggttcagatc tatcgtctac  120
ataagaaact agcaggaata ggaaaactaa aattgcaaac acgcctcaaa tgaagaagcc  180
ttatttagac taaaagggc attctagagt ttgcgtaaaa tgagatgagc cccacgctca  240
ggctgaagag tgataataaa ggagggggca tgatcatagg agggggaaaa atggagggag  300
aaacgttgca ggatcattga cacagctact tttgcttcta acaagccaaa gttttgtcct  360
atgcaaagtc gaggacccca tccaaatggc aagtaggaaa gcttgccttt tgttgccttt  420
gatactcctt ccgagaatct ttctgggttg aattccccg                               459

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<210> 30910

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c10d1

<400> 30910

aatgatcaat tatttaattg tatacatata ttatatacca aaatatattc gaattataga 60
 agagaaagga aacatcaaaa gccaaagatat atggcaaagt aatataatct atacacaaat 120
 taacaatgag tagtgtccac tccaaactca ttctactctc atttgaaggc caaagtagtt 180
 gaaatatctt gtctacttgt tgctttcttt attaagaatt ttttgaaaga ttcaagaatg 240
 gaccggccaa gaatctcagc caaggaatgc tcaatttggt gcagaagatg gtgagccaga 300
 gggcttaaaa gcagcttggt cagcacagga gagaacttca ttaggccctg cctcttctct 360
 gccaacaccc aagagatcaa gataataaag atagtgtgaa atgatgttgt tcatggcctc 420
 attatctgat ccctgaccac aagtttgatc cccatagagc aagtttattg tggcaccaaa 480
 tccgggtacc cttttggaca at 502

<210> 30911

<211> 548

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063c11d1

<400> 30911

gtatgttgag aaataaaatt taacatcata caattctgca ttcccatggg caggtaaaaa 60
 attgttgagg atgatcaaaa cacatgcttc ccagctgac aaacaccaat aattaggaga 120
 actgcttccc tggaatgact acatatcaaa aacagcatca gcaaagccat ataaatcaga 180
 acctccactg cgactagaag caccaacaga gaggtgctct ggcacacctg caaaaccttc 240
 tgtggatgtt ttcccatata aattattcaa tgttgatgca gattgtccca caaaactctg 300
 tccaactgac ctatcatgag acaatgcccc ttccccaatt ccatgatata tatacatata 360
 ccctgatac ccagaaaatg aaccacccat agctcctcca agcatattag cccacttgc 420
 cactgcactt ccaagatatt tttcagccaa agaatccgaa gcagatgctg cagtgaata 480
 attattcggg taattgccat aggatctacc atccagcaaa tgtgccgaca atgaaccata 540
 atatgagc 548

<210> 30912

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400063d04d1

<400> 30912

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aatgttaaaa attttttttaa taaattctaa atcaatcttt ttagtatcta caatttacac   60
acaggacaca accattggac acaattacgg tatgaagaca gagaccaata tcaaggacta  120
ttttgctttg gagtggccaa ctagatgctt aaggtaattt acacaaacgt atgtttccac  180
atgatctgct taattccttt accaggattt aagaaaccac aatcatagtt cattccaagc  240
acagaaagta tgtttgatgc ccctctccct ctaatctcct caagcgataa catttttccc  300
attaaaaata gctctgaaca ttcctcattg tcacctacca ccagctttat cagccgcagg  360
aactttctca gggtaactgg atacatccaa gtcaatgagg gtcaagtcgt atggttctga  420
aacagaattt gacatatcca caagcaatga agaattagtt gcatcagaaa tntgaagcat  480
caggcatgga accagaattt tg                                           502

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<210> 30913

<211> 588

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063d05d1

<400> 30913

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cacaccaaag gtctgttttc attaaaagca atagattctt cacaagcaca caccactcac   60
ttgacatata tggaacacat acataatcca tatagcatta cttagtgggtg gggcatttct  120
tacttttatt taatgcacaa acataacaag ggcaggaagg aaaaccacaa aattaaaacg  180
aagatcatat agctgttaat aataacaaca acacatgcaa cataaaaaacc acatgcagtt  240
gtggtagtgg catcttcttc agattggaaa cgcctcaatg atggaaggga gagcgttgat  300
cttgatgatg ttgtaacgcg cgaaaccggt ttccttgaac agccacttcc agttctcttc  360
ggctctctct ttgccaccgg cgttgtgagc gagaagcatc atgtcgaatg cgatgccaac  420
gtctgtgaag agttcgttgc cttcgggtcg aagaacgtga tccacgatta tgacttttcc  480
tgtcttctct ggtattgcct tctgcagtt cttcaagatc ttgatgcagt gctcgtcgct  540
tcagtcatgc agaatccact tcatgtaa at agcatcagca ctaggaat                                           588

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<210> 30914
 <211> 442
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063d07d1

<400> 30914

attaaagata tttatatcat tatacatata tggtttctct tctctttcat ttttttcaca 60
 accaaactag gaaaaagaaa tacggtaata acttatataa tcaactcact ttctattctt 120
 ttttttttct ttctatTTTT tccctttcac tttctttcct aaactaaaca tgccattaaa 180
 gaaaatgact gcttattttc ttccttgaaa gtaaactata tatcattcca ttgttcgtca 240
 ctcttgagta tgctgaggtc ttgtgctaatt atttcatgca tttctgctgg atactcccct 300
 atgataattg ggtccaaaaa ccaattcata taaaatgatt gagctcgctc agcagctaac 360
 tggctcttcc aggagtggct gacgggttca aacaatttgg atttaataac aactccaatt 420
 ttccctccct gttttttatg at 442

<210> 30915
 <211> 154
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063d08d1

<400> 30915

aagggggcaa caactaatat tatcattaat agtgagtcaa tgacaaacaa aaaccccggt 60
 tcaaaatatt aaaaacagaa agaccccgta accattggat tagactaaca cccataacaa 120
 ttagattaga ttaatactaa aaatcaccag acaa 154

<210> 30916
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063d09d1

<400> 30916

atattccata aatcttgtca ttgagtgaat taacaccacc gttttgccac attgttagag 60

aaggatatga tcgaattagg aactgggggc gtaactatat gcgaaagcat ttagaagtga 120
 ctcttttgaa taaaactcca ataggcaagc aaagacaaca tgtagagcta taaagttgat 180
 agaaatgcta caatccaaat gtccaagatg gaagtagctc agccgcatca aagttctagt 240
 gaccgtatct ctgaaactcc cactcgctat tatctagagg acatacttga cgggtcttga 300
 gccatcggct tatgcaatgg aagtgaaaag catgggttaca aactcccaa gctacagtgc 360
 attcctcgct agtggcgcta gcctgggttg cctggcactc aatacagaga tccatgatata 420
 ggttgcgga aatagcgcaa ttatccacaa caatatccca agcccagaga gaaacggcat 480
 tccacttctt gatc 494

<210> 30917
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063d10d1
 <400> 30917

gttctcttat tttatgtgac tagcgtaagt gagaatacaa aaaatacttg tgatgaccac 60
 cgaattcatc ataaaattgc gacccaaatt ggggtgtagtt ctgagaataa gcagagagac 120
 tcccctagca acaatttaca ctcatgttag ataattgact agacaaacca gatccaccac 180
 catccaaatc ccttttcttt ggcttcagtg atggaggtag ccagttacca ataatatcag 240
 catcagcatg ttcatgatca tcataaccaa tgacatcatg gctaggctct ttacgactca 300
 cagagagcca cttggcttgc atgtatgaag cgtttctcca tgggtggcacg tggagaccct 360
 tctctctt 368

<210> 30918
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063d11d1
 <400> 30918

aatattatat atttgagatt cataattcag attaactagc cgaactttat acagaagcga 60
 ccaattacca aacatttata tatatatata tatataaaaa aaaggcaacc atgaccttaa 120

cacacccatc acaagtccaa aacacttgaa cttgctcaag ggcaagaaat gaccacttta 180
 ttctaagggt gtttgtttag acacaaaaca ccagagtgca acataatata tactacataa 240
 ttttgaagtt ttgaaactac atatagtttt tatcattatt tctaagggcc atttctgctt 300
 gaagcttttag ctctccaaca cctcacttgc aagtgcaggg gttgcaggtg cagttagctc 360
 cacatttgca gccatcggtc tcagcgggaa caccatcttc agcactctcg aattgagcct 420
 taactggtgc cactcccatg accaaggtct cggtggtggt tgactcggtg tagctcaagt 480
 ctgggtaca 489

<210> 30919
 <211> 533
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063d12d1
 <400> 30919

aatgaatata gctatgtaca ttataagaac aggtaagtaa agtcaaaatt ttaaaataaa 60
 tgcccaatac tatcaactgt tttaaaaaat acatgtaaat actgtagact aagggaag 120
 cagggaaaaa aaatagagag aaaaaaaaaa ctccaccaag gccagttaca gatttggcca 180
 cctcgatctc tctggaattt gcctcggttg ctcaaacctg tcagattctg catgaagaca 240
 gcaaccagca tgcactgtct ctaacttgaa tctagaatgt ttatttataa gtccactgca 300
 tccctataat ttgacaatcc atttgcaggt aattgcccgc cgcttcaaaa aaaaatctta 360
 ctgtacatcc ctccctttcg gttttctgct tgggtctctat caacaataaa atgagtaaag 420
 aatattgttc taccactaat cctgacattg tacaagacaa cattagtctg gctctctttg 480
 actttccttt ctgctgagag attggacaag aggagaaagt gcagtacca ctg 533

<210> 30920
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063e01d1
 <400> 30920

aaagggggaa atggcgaacc caacccccgg gaaattccaa ataactttaa aaagaacttt 60

taaaaagaat tttttttttc cccgggaata aaattccccc ggataaattt ggttcccca 120
 aaaaaaaaaa gttttttttg cctgagtggg gttaattatg ctcccattgg gccccaattt 180
 tttcttcccc gggggaagct gtttccactg gggctgcaaa aatcgggggg accaaaacct 240
 ttttggggga cttggggaaa aaaagaactg ggaaaacagg gggttttttc cccgggaccc 300
 tattttttat agggggcccc tttcttttgg ctttttcaaa ggaagatttg ggggggacaa 360
 aagccccct tggggggggg gaagccccctg gccccgaaa acttttt 407

<210> 30921
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e04d1

<400> 30921

accataataa tcttgatatt cctcactgca atttatagac aataggcaca tcttttctgt 60
 ctttcatgct ttggtaaaat tttcatgtca tcttccacaa gaaaacatta attccttcat 120
 gatcctaag agtggtgaaa caaataaaaa gcaaagggca tgtatgaata gcaatgagct 180
 gtacacacta gtgtagtgta aggatctttt tagtcccata ctaatacaca atcatctaca 240
 ttctaacatc tacatctatg ctataacaac aaaatatagg tgtacaaacc atcccaaagt 300
 aactcgttcc tgttcccatg tctttgatgt caaacgtggc agttatccaa actcagaagc 360
 tcaaaagaat gcaaaaatgg cccctccaat agtgtatctt atccaggaat tggtagcttt 420
 agctttgaga ttcatggctc tacttccttt ggttccttct gccattggac ttggaatctg 480
 gattctcagt catct 495

<210> 30922
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e05d1

<400> 30922

aacaaacaga tttttttata tccaaaatta gatttctcaa attagtaatg tcattgtaat 60
 atctagaatt cactataggg ttgttctcat caatgatggg cagccatcag tgatcagaca 120

tgtggcttat tttcttggtg tgctaggtac aaatttgata catgtcttat catgaaacca 180
 tgcttattat ttatcctctt caagtacaca acagtctttg gatcagaatg gtgccacttc 240
 acttcgagaa aagaatagac cagaaggacc tccattaggt agcagagcca accttacaac 300
 actttcagca ccttcatcaa cactaagata gccagtattg tagttgagat ctgttttcac 360
 aaagccaggg caaacagcat tgatgcagaa agatgggtac ttcttagcaa gaatccttgt 420
 gtaggcagtc aaagcagctt ttgagactat atatgcagaa aaagcatgtg gccacccttt 480
 ggtttctaata gaacctctt taaatctttt agaaac 516

<210> 30923
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063e07d1
 <400> 30923

cattatatat attaagaaac atccaattga gaggaaggag taacttgtcc ttatgtcaac 60
 gtacaggtta cccatgcgac tttgaagaat gaaaatataa agacgttagg gacatagccc 120
 agaaaaataa tttggcactt caacttagaa ccatgtgtaa tatgaatcat catactgaga 180
 agaaaacaaa agaaaggaaa agaacatgac aaccaacaga agtgacatag ctaaagtact 240
 aataaataat aagctcatgt cagaaatctg caaagacggc aaaaagatca ccattgatgt 300
 aatcattgtc gaccaaacta accaagaagt ggctgcccc aacctcttca accaatttcc 360
 tggatgcc 368

<210> 30924
 <211> 163
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063e08d1
 <400> 30924

gaagtgaatt tttttttttt tttcctggta tcttacaac aataaacaaa atctccattt 60
 cattatatga atgatacatg accaaataaa actaaaaatc agacaaaacc tgggtggcaca 120
 ttgaattagt atctccatta cagttatggg cgttgcaccc aaa 163

<210> 30925
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e09d1

<400> 30925

atgttcaaaa gatctttttc tccactttaa aggatggata tctaggagga tcagaagtgt 60
 ttgacaatga attaacaata aagctgagat accagattca aaagcattcc tcccaccata 120
 ttcaactatt acttacaatt tcaagattgc ccaagttcaa aaaagaagac aagtttgata 180
 cgcgaaacat aaataaaaca aacaaaatag tcagaaacat aaactagaaa ctatagggca 240
 tatcttttca ttgaaatttc aaaagcagca gaatcataaa acttattcaa acgcccattg 300
 gttttcccta cgaacttcct cctcttcctc aggggtgaag tcattcttga tgttgaatgt 360
 cttgcgaatt tcctcaggag tctttccctt gatcatgtct gctactggct ggcaagtaag 420
 ggccaaaagg ctcttgatgt tcaagtagtt tgcagccaga atgagatcga agaga 475

<210> 30926
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063e10d1

<400> 30926

gaaagagagt tttttatact atattcaatc attttggggg aatacagtat aattttcttc 60
 cctaaactga taatttcttt agtaaagaca ccaaagtaaa ttgcatagct atacttattg 120
 ctcatcttca gttttaactt attgtgcaca catcactcgg ttcgtgctct tacatacagc 180
 tctcgtttgt gttctgaatt acactcaggc agcaagtaac ttctggatat cttctcaat 240
 ttgaaaagga gacgttggtg gtgggtatct ttcaataact ttaccatttt tgtcaaccaa 300
 gaatttctca aaattccact ttataagatc acccaaaaag cctccagcac tcgatttcag 360
 aaactggtac actggagttg taaatggtcc attgacatca accttatcaa aaattggaaa 420
 ttctgcttta tatcgagtgc aagcaaattg cttaatatct ttatttgatc caggttcctg 480
 cataccaaaa tgattgcagg ggaaagctaa aatctccaaa ccttgatttc ttatattttt 540

<210> 30927
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f01d1

<400> 30927

agaaaagaaa agcatatttt ttttccatta cgattcctga ccatttagag agaaaaaaaa 60
 agttagtcctt attggaagaa gaaaaagcaa ctttctgggc agttggcccc gccatcacct 120
 acctagggtt ttttcttttc acataaacca aacccttaaa gaaaaaaatt tttaaaaaaa 180
 agagtctaaa aactaggaat ttacatgaga aaatccttaa aaaaaactaa gggggggggg 240
 gatttttagcc aaagatcaat tttttttttc atgggttcaa ccccgatttt aaattacggg 300
 cgcagtttca tcgggatttt ttatttcatt ggaaattggg aacaagactc cgaaaaccta 360
 aatggtggcg cggatcgttt tctaaaacct cggactttt 399

<210> 30928
 <211> 562
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f06d1

<400> 30928

gaataaatta atttggttta gcatttatct atccatttca atctcgttcc tgtattcgtc 60
 tgtcattccc ttggaacat tcataaagac aagattacat tcttgaatag gaagagaaag 120
 ggggggtagg gatgatacac aaactatact atgggtcaaaa caaaaatgcc aataattaat 180
 ggggtatata atggcttata atcctgtagc tggttaatttc atttgaatgg ctagccttct 240
 ctttcatcat cttttggtct tgttgaagag cttgaacctg aggccattcc aatgacttgg 300
 ctgtgtgtga acctttgtaa ctgaatcatg cgcgcataaa tcccatccgg gtgatttttc 360
 aacaactgtg aatgggagcc ttgctcggct actttcccat catcaatcac agcaatcaga 420
 ttggcattcc tgactgttga tagcctatgt gcaacgatga tagttgtttt tcctgaggag 480
 gcgcgggtcta gagcctcctg aacagacctc tctgattcag catcaagtgc acttgtggcc 540
 tcatcaagaa gcataagttc ag 562

<210> 30929
 <211> 328
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f07d1

<400> 30929

ggggaagggg aaccgggtcc catagaaaaa aaactttggg gggttttcaa aggccccctg 60
 gggaggaact tttccccct atgggttccc cataaaaagc ccccttaagg ggggggggtg 120
 gccctttggg gggttggtta agccccaaaa aattcccccc cttttaaaaa aaaaaaccct 180
 acccaatttt ttttccccca atacaaaggg ggggggaccc ctttgggctt tattctttga 240
 acaagagatt ttttcggagc aaatccaagg gccttttttc ttaatcccg aaaattaaag 300
 ggggcttttt taaaaaggaa taaagccg 328

<210> 30930
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f08d1

<400> 30930

gaacttgagc tttttattat atatatatat ggagcgagga gagaaaacat cacataaagc 60
 aagttttgca caccaaagta ctcattcatt aatagcaata tatagattct tcacaaccac 120
 gcaccactct cttggtatat atggaacacg tatataaccc atattacttg gtggtggggc 180
 gcttcatact tttatttaac acacaaacat aacacgggta gggatgaaaa ccacatcaca 240
 cgaagatcac atagctgtta ataataataa caacacatgc aacataaaac cacgcacatg 300
 aagtgtagt gcttcctctt cgtttagattg gaaacgcctc aatgatggaa ggaagagcgt 360
 tgatcttgat gatgttgtaa cgggcgaaac ctgtttcttt gaacagccac ttccagttct 420
 cttccgtcct ctctttgccg cggcggttgt gagcgagaag catcatgtca aatgcaatgc 480
 caacgtcggg gaagagttcg ttgccttcgg gccgcagcac gtgatcaacg atgatcactt 540

<210> 30931
 <211> 409

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063f12d1

<400> 30931

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gggccaaacc aaagccgatg gttttataaa cccctaacc cggggggggtc atgggaaaac   60
aaaacattcc ccccccccta agggcccttt ccggtcctta aaaggaaaaa aaaacccggg  120
ccccccaatg gggacaaaac ctaacagggg ggggggggac ccaaaacggg gcctcctttt  180
tttgggcggg ggggggtccc ggttttggtt aatttgcccc tgccctccca aaaacaaaga  240
aaacaacacc cccccccccc ggggggaaaca aaaaggcccc ccttccatgg cccccccca  300
gggattggga aaaacggccc ttttccgtta aaaaaggttg gggagcttcc accccgaggg  360
acccccctgg ggggctaccg ccaccgggtg gggaacgggg ggcccccca                409

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<210> 30932
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g01d1

<400> 30932

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ggtacatatt agcataagac aatttattat atatataatt taaaaatact gaacgaaaag   60
ctcatgaata tttcacaact tcctaattga gaaaatccga acagcttttc tacatataag  120
tgaaatactg aaaattgaaa tagaaaagtt tatacactaa caagactctt tccaagaatt  180
atgtcatctg ttgagaaatc agcctctttc cggtatgttc ctctaccaa gtccaggttg  240
tacgagtctg caagaccctc tacaagccca aattcaggtt cccacccaag cactctcttt  300
gctttctcaa ttgatgcaaa gaaatgctgg tcacggaatg gaaatgattt ctttttccca  360
aagtcaaaat ctttaggggt gtagtgaatg atctctggct ctgggaaccc accagcctta  420
gcacatgctc ttgctaattc gtcaaactg acatacttct ctcccagat gttgaatact  480
ttcttgctgg cct                                                    493

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<210> 30933
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g04d1

<400> 30933

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ggtagcgcaa aattcctttg gatagtatga ttacagtaag actaagggtc tcctttaaca   60
acttgtgaaa taaaaaactc atgctagaga aggcttttac ggtctatctt aaagctgaaa  120
ccatgaaaaa caaagggaac cgacagcacc gtcattaaat agtggatgtc atgcaaactc  180
acaactcgtc cttggcatca tcaacatcac catcatgaac cgcacagct tcaggctttg  240
aatcactttc agcctctact tcgggtgtcat cttcctcctc aactgttgct tcaggactga  300
tgtccaagct ggtcttaact gaatcataaa tacgggaagc aaaatccttg ggatcatcaa  360
gcaggaagcc actttcgaag agtgcgggtc ggtacatcaa ctgtgctgta tgtttcacac  420
cctcatcctc agggttcttt actactctct ctcggagctc cttgataata ggggtgcctag  480
gattgacctc aagaaccctc ttgccgcgca tgtatgcttg cttgctagca             530

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<210> 30934

<211> 514

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063g06d1

<400> 30934

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ctgtacaaag attttttttt tgatatgggg ggtctttggt caaagtctgt gaaagggtgac   60
aagggtgttg ctaaatacaga tggacattct gataaccata aatctgatgg taagaaccac  120
aagtcacca acatgcctag tgatttgaca agtgcagggg atcatggagt ggacaagaaa  180
aaacaagaag ctgatgctgc tgcagggaat ggttctgatg atttctatga tggaatccca  240
cggtttaatg attcttttcc ccacaagtct aggtcagtaa aatcaaggca tgctgtggca  300
aaggctcag aggtgagttt acgcctgggc agagctggta ttgacgtttt ggacactctg  360
gggagcagta tgacaaatth aagtgtggt gggtttgat ctggagctgt gacaaagggg  420
aatgaaattg gaatthtagc atthgaggtt gcaaacta ttgtcaaggg tthtagtctt  480
atggaatctc tthtaacaaa aatattaag catt                               514

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<210> 30935

<211> 559

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063g07d1

<400> 30935

atatagaatt aatttttgtt tactcttaac atgtaccata attccgcgat acaattatat 60
 tataatactc gataccacat caatgaggaa aatgtaacac cataagtgat actgatactg 120
 agtcataacc cttcaagaat tatagggaaa agtataggga aagtagactt aaaagactga 180
 atcttgctct ctctcttgaa tatgattaag ctcaacttaa aattaagtct tcttaggagc 240
 aagcttggcc ttgatgtcat caaccttctt agtatcaatc tggaaagcct gagcaagaac 300
 atcatcaggc acagttgggtg ttgaagtga aagagctgca gctatagaca ctgtgccagg 360
 gagttggctg ttgaaggcag aaagcacaga agcaggctta tccccattgt tcttctgata 420
 gtgcacaaa ccttttgga acacaaagat ttcacccttc ttaattgact ttgagatgag 480
 tttattggct gtggtgatga atccaacatc tagttgtcca tccaacacaa acacaatctc 540
 agtggcacca ggggtgtgtg 559

<210> 30936
 <211> 553
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063g10d1

<400> 30936

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 ttgaagtaaa actgtataaa accgcaatat caagggttta atattttact tattaggcac 180
 cttaatatac cccacatgtg aggaattggc ccctctagta agggtttgaa gatcataagc 240
 tacccaacac cttgaattct ccttgtggta gaaataaccc acacacttgc aatccttgggt 300
 gcatttgttt ccacaagtac tctcactcac tctatccct gtagtgtatt tgctcatgta 360
 atgctcaact ccttcaattt tgtagtagtg gaaatcacta gccttgcattg atgtcacagc 420
 cttggcagtg caattgttgc tccaaccaag tagtccattt tccaatggac aagccacaca 480
 ttggttatct tcacacaacc caaatttccc acatctctca ggcaattggc actcactctc 540

atcagaatct cta

553

<210> 30937
 <211> 182
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g11d1

<400> 30937

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 caatagacaa ttgggtacaa aatgcattgc atgggggggg cattctaaag ggaacgtaac 120
 aaaaatgaag ggggggagga ttaaaccagg ccattggct acgaaaaccc atttggtgga 180
 gg 182

<210> 30938
 <211> 439
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063g12d1

<400> 30938

gaacaaaatt tctttcattc tcattgatga ttgatcgtgg cgcagtatct acaaccatta 60
 acacttaaat gtcttggtgg aaaatacaaa gcatgcaact gagatttcaa gtgcatgtga 120
 aatctcttta ctcaaacact attataacac tggcactaga cactttgcca attaagacag 180
 acagaaagaa aagagcatgc tatctatcta catctattgg aaaatcaaaa ggaaaacggg 240
 tccaccaaac attttgtttc accggccttc agcagaagta aaagaatctg caaatccagt 300
 aggcccttgca gggatactac tatcagtgtt tagggggccc atataattaa actctttttt 360
 ttgtgcctgg ggccatccct acaccatgtg gaggggggga gggttataat aaatgccgga 420
 atactectgg gtgtcatca 439

<210> 30939
 <211> 517
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400063h01d1

<400> 30939

agaaaccgaa gagcaaagag tattattagg cgaattatag atgtcctaata tttattgaag 60
 gtagctcatc atgttttttt tatgcttctc ataacagact ccattcactc actctatgaa 120
 ccccaaccaa ccaaccacat gatactgata ttgaaaagga aaggggaagg gtttcgaaat 180
 gatataccta acaccacaat cccctaaacg acgacacgag aaagaaaaga agagaaaaaa 240
 aaggctaataa cgacaccgaa agaaataaca cagattcaga gattaaagcc gcgggtcaac 300
 gtcgtctaag agagttgacc gcagttggcg atgacaacgg gcttgagggt cctgccggag 360
 ctggatccga ccttctcgat gtccttgaca acgttcaatc cttcgatgac ctgtccgaac 420
 acgacatgct ttccgtcgag ccactctgtc ttctccgtgc aaatgaagaa ctgagatccg 480
 ttgggtccgg gaccggcggt cgccatggag aggatgc 517

<210> 30940

<211> 508

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063h04d1

<400> 30940

atatcacaac aatttatatt ataggaaatt ggatgatgtg ggtcttgttt gttggagtaa 60
 caaaaatatt ggaattggaa acagtaagat aaacaccgta taccttcatt cgaatgcac 120
 acattaccaa tggacagatt aaccagcttg gcggaaccaa gcaaaggaaa atattctaga 180
 caaaaactgc aacccaagct gcttgaaaga gacaaccaa atcaagtgt ttaataatat 240
 taaatcaact tcttatcaga acccctaaga ttcaaattaa accatttctt ttgacctgat 300
 ttatccttgc catctgaccc tccatcttcc ccggggctct cgtcgccatt aattttgcta 360
 gaacttccat tgcttaaatt actaccactt ccactaaaat tggttgactt cacagtgggtg 420
 aaggaagaat ggataccatc cctttgtttt agaagctcat ctacagattg tttttctttt 480
 gtgtatctgt ctgtcacttc ctgatagc 508

<210> 30941

<211> 274

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400063h05d1

<400> 30941

aagaaaatat gcttgtcaga aacgcgtata aatggaagga caaactaaaa tagcccagta 60
 catccacaat tcataacgaa gaacacgaat gcccaaaatc tcagtaacat tgagattagc 120
 attcaacacc ttctcccttc tgtaatgttt tcaaaggag nnttnntgtc tngttagtgg 180
 ccccgtcagc gaggtcatt gcgtaaccct cctactttgg gggagggttac cgtactgtga 240
 tgtgtccat agccccaaa ggattacgat gcaa 274

<210> 30942

<211> 495

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063h07d1

<400> 30942

aaccattaat taacatataa aagcatatgg gatttcagtc tttaaagccc gcttttacgt 60
 gacatccatc attgtaatga ttcccataga aaaccctcat tctaaaagtc ctagaaagaa 120
 agcatgtgaa ttaacaaaaa aaaaaaaga aaaaaagatg aaagcccctt cgtacacaca 180
 caagcttcct gacacaaagt agtaataatg tataactggg tattattttc ttctttttcc 240
 tcctttttcc ctttttctct cccaaaaaat ggtgccccag cttgaagtca tggttttgtt 300
 gatcagacat tctccgtaga tgaagggaga agtggctgag tgagtgatgt tttggcatgg 360
 cttgaggacc tgatgccact gtgctctggg gtggacgtaa tagcagcatg ttcctttgca 420
 aactttctct cttcgctttt accccacaag acaaagtaca gtcccacaac gatcaacact 480
 gctcctatga tcctt 495

<210> 30943

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400063h08d1

<400> 30943

aagattcctc taatgagcct tgcctattac tgccttccat atgtaaatgt taatattggt 60
tttggttcaa ttttctttaa caaaagaaaa attataaaga aaataactat caaagcacag 120
gtaaagattg atacctttat ttccatgtga aactttttat acatcagcaa gaatagcctc 180
tatttgcagg atatttctat ctctatctgc cttcactgtt cattagttga gaaaaaactt 240
cggtagcact tatgtctgaa taaccattac cattatctcc ctctcttatt acgttactag 300
aaggactccc aggaattatt gtagttgtca cattcactgt ttcccagaca ctgctatcat 360
catatgactc ccttcttgt tcaactttctt ggagctgaag tgcataattcc aaattccaca 420
atacagcacc cattgttggc ctatcaacac catattcagc cagacatttt t 471

<210> 30944
<211> 459
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400063h09d1
<400> 30944

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taactccaag ataaaaattg ttatcaatgg tagcatacat tacataataa agaaggggtg 120
cgaaaggaaa taaaaaatac ataacatcga caaccgagtc tagctaagca atgcggggagg 180
gatggagcaa aaagtgagga agatgctgtt ccaaaacgac cactagctct ctaccatggg 240
tcacttcatc caaaacccta tttccaaccc tcttagcggc ttcaaccagt tgtcccctaa 300
gccgttgtga aaacaagcag ccacctgtct tgacacactc tctataaagt gggaggtaag 360
caattgccac cgtcagtggg gccggaagat ctcttaagca aataggagac tcacccatt 420
taatgattct cacaagggtc atgtaatgct cttgcccta 459

<210> 30945
<211> 445
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400063h11d1
<400> 30945

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cacaacgatg gcaacaacaa aattactgaa aaaacagaga aaaaaaatat aagatataac 120
 gtatacaacg ctacacagata aatatattct gatatgataa cagtgcacta atatttagta 180
 tcatttattc ccaaagggtta acttaaattt cttcacaagg ggggccttcc aaacgaatat 240
 aatcatacat gataccttgg aagggactgg tgcattctgg ttgcgaaaaa tatatgggat 300
 ttgtgccatc aacaagaaga gaacctggta tattcacatg gtacagtcaa tagatccctt 360
 gaattccatg tcttgaaatt gagtttgccc ttcctattaa tccactggaa aatacggggt 420
 cgccttgcac tggggatcat tttac 445

<210> 30946
 <211> 306
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400063h12d1
 <400> 30946

catattctat ttacatacaa atatgtggcg gcttacaaaa ctctaaatct tctagggttt 60
 acttaacaaa actaggaaaa atagttaaag caaccagcaa aacattgggt actagttaca 120
 caaccatgcc attgacctgt atgaatatat aaaccaatga cacgagaaaa gaaaatgggt 180
 tttgtgatct ttgcagccat taaaggtagg ggatttaaaa tagtcacaat aagataccta 240
 cctacaaccg aagaatgggt cgaagggtgt cagatagatt ttgaatagtc cgctgctcct 300
 gggtcg 306

<210> 30947
 <211> 549
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a03d1
 <400> 30947

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 ggatttcagt ctttaaagcc cgcttttacg tggcatccat cattgtaatg attcccatag 120
 aaaaccctca ttctaaaagt cctagaaaga aagcatgtga attaaccaaa ataaagtaaa 180
 ataaaaaaga tgaaaacccc ttcgtacaca cacaagcttc ctgacataaa gtggtaataa 240

tgtatataac tgggtatcat tttcttcttt taatatcttc tttttccctt tttctctcag 300
 agaaaatggg gccccagctt gaagtcatat atggctttgt tgatcagaca ttctccgtaa 360
 atgaagggag aagtggctga gtgagtaatg ttttggcatg gcttgaggac ctgataccac 420
 tgtgctctgg agtagacgta attgcagcat gttcctttgc aaactttctc tcttcgcttt 480
 taccacacaa gacaaaagtac agtcccacaa cgatcaacac tgcttctatg atcccgccca 540
 agtagaact 549

<210> 30948
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a05d1
 <400> 30948

gaactgtgga ccactgttta ttgccaatcg ttgtgaaata caacttcctt tgaagggata 60
 agactttgat gttattgtga aatatgacag aattctcaca atattaaata aaaaaataac 120
 ttgtacttct tgaaaattact ctaggccttg ctgatatttc agaggatgat tatccttatt 180
 gacagaataa ttcaaaaattt ggcaaaaagaa aatatgttgc tgcccttaac aaaatgtact 240
 ctaccagatt gccaccacca atggcttggg ttttcgatcc agtatccatc aagtgcacaa 300
 tatatgattg caatttacta atacagaaca gctacaatac tcaagctgct taatgaattt 360
 tattgattaa atgcacacaaa cgaaaaatgt tctttttttg ttttgtttcc tttcagagac 420
 aaagggggac tactctgcaa atctgaacta gagaatctca atagacttca acatgccatt 480
 gtttgttctt cttaagttga gaaagct 507

<210> 30949
 <211> 551
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a06d1
 <400> 30949

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 accatacagc ctaaaatgga gttacttatg gaccacagca aatagcttgg ggactgccag 120

actacgacca tggataagaa ctcaaattga ttaccaatTT accatccacc aaagtattaa 180
 ctgttcttat aaacctaaaga ataaaaagta tagactaaaa ttgatgaaat ataaaatgct 240
 aaaacaaaca gcatttcttt acttttccca aaaatgatgg gtatttatga gaaaagctat 300
 ttacacaatc aattccaaca caactgggta tgtgtctgcg tccaagattt tgcgcaagaa 360
 aaaaaagggg tgagagcctt tggtagaaat cataactcat atgcagtcac attagcagtt 420
 ttgcgggggt gtaagtagca ttactagcga ttctataag tagcacacat atattcgtgc 480
 cactactaga cttcatttag cccaacatac aggacgacac agagaaccag agacaactgc 540
 catgggaaaa t 551

<210> 30950
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a07d1
 <400> 30950

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 catggaacat atttgcgatt ctcaagaatc tcaaccacaa ctaaaccaga acaacaaaca 120
 aacagtaaag catagaaaaa ttggtgtctt caaatgttt gacaaatgga tacagcccct 180
 tcacttgcag atactttctg gtggcatgca aatttagctg tattgaattc atgaagtgtc 240
 aacaagtgtg tcagattgtg ctccccattc agtccaagat ccatcataaa ctgcaacatc 300
 agactttcca agacgatgaa gaccccatgc cagaatgcaa gcagttacgc ccgttcaca 360
 tgaagtcaca gctgggcttt ccac 384

<210> 30951
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064a08d1
 <400> 30951

gatgcatgaa cacaaattga atttgctgct ttattactaa taattattgc aaacacaaca 60
 acagggtaca acacaaaaat gccacaataa atagaaaagc aatcatacac gaccatatta 120

atctatgaac aaataaatta aagagatcac taaaaatgga ctgtactttt cacatttact 180
 tggcatttac atttcaaata tctctttcct gtttggattt gtcogtcact tgaacacaat 240
 aagatcagga cgtgcaagat ggccatcaaa caaatagaat caacctgac tgaatcataa 300
 acattgtagc atagagatga cacattcaga cttttattca aagaacttag acaggaagat 360
 agatgtttca cttggctcaa aatagagctt gcctttattc ctogatgaaa actagaacat 420
 gattcatcat gaatggtgct ttcacaattt gagcttactt gtagataggt ggaggtggng 480
 aagcatagat ataaaccgga ggtggaggtg atttgtaa atgtacttggg 529

<210> 30952
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064a09d1
 <400> 30952

agaaagtatc atgcttgatt actgattgat ggacagtcta aataacaatg taaaaccatc 60
 gtagttcctc tgtacatgaa aatagacgga tcataacaat catgccccaa tcaactctcaa 120
 aattcatcca ttcaggatta cacgagaagg acacaggctt atccatgtca ttggatacaa 180
 acttagtagc cacgaattgt attgatgatg gtgttggtgcc acgggtcaga gaggtgctgc 240
 aataggttct caaatggtcc tttgcctgtc acgttggtgt gaactatgaa tcccaagaat 300
 gccaacatag ccaatctccc attggcaagt tccttctcct tggcctccaa agtaggtgca 360
 aagttcaagg ggttaaacac actaccaggg tatccacact catgttgggg caagctgtat 420
 tgcttgaaga tgggggtcttg gttgacagag ccagggttct tgatgtcctg ccactctcgg 480
 atctcgacgt agtgaacaa gatgaactcg atcacaaga gggtcgacga tgaagcanag 540
 tactncgatt tcccagcatc atacca 566

<210> 30953
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064a11d1

<400> 30953

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 attcaatgta tgaatgcttt attttctctt caaggattca ttgtacaatt catttgtttg 120
 atgtgcttcc gacctcagcc aaattggctt aacaaagaga cacaaagagg aaacaaaagg 180
 ggaaaaacta aaaaataagt cccaagtcct agatctcaat ctacaagaat agaaaaagct 240
 aaaaaaaatg tctcaagaaa atttacaact tacaagggca tagagacaaa actaacaaaa 300
 gttgaggcaa cgaagcgaag agaagaaatg ttttgaagta aaaagagaaa aatgtataac 360
 aatcatgtta atagaaaaat tgaggaaggt aagggaaaaa aaattaggat attgtgaaaa 420
 tatgttatac tct 433

<210> 30954

<211> 572

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064a12d1

<400> 30954

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 tacgttcgtc cattcaccca aaaaagaaat ataaaaatat atgatacaac gtatacgttt 120
 gctcataact gtatgaaatt ggtgtaacag atgcaagggt cacgataaga acttgtttct 180
 cccatagcca ttaatccaat agctaatacca tctcaagcat acagggtccc ttctaagtca 240
 actggcataa aaaatgattg ccacgcccac cttccatggc tccaagcatc aaggttcaat 300
 tcaaagcaaa atgggcttac ctatttgtct tgtctcctcc atgcattatt tccatgcaca 360
 tatcctggat caacaacaac ataatgaggt ggagcatttc tcaagagtgg caccctgtca 420
 ggagcatatt catcatcact gtcataatat tgatgtggcc ctagtgtttt gagtatcatt 480
 gccataata aagagagtcc ctgtacagaa acaagtgaca ggccctacca tttgcacatc 540
 tcataatttg acctgataaa attcttgaac tg 572

<210> 30955

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b01d1

<400> 30955

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 attctttaat catatgtaat ataataatgc cctaaatcaa gggtagattg attattaatt 120
 aaatagttac gtaattaatt acatatattc tggagagtcc cataaagatt catgctgtat 180
 ttcttcccat ccaactcaact ccaaagcata atcatcatca tcagaaggca gcatcatcat 240
 agagtgatca tcgaaaccaa acctgagtgc ctctgccatt tgcaccatcc acatctttgg 300
 tgagtccaat ggggactcat tgatggcctg aatttgtgtg ggtgagagtc ccaactctcac 360
 aggaaccaca ctacccttaa taatgttatt gtcattgaca catccttgat gattgttaat 420
 aggtgacatt gttggtgata ttctgaacat caccgccgct tgttgtgctg ccacttggac 480
 atcttcgggt ttcgaactcg ttggacgtgg cagcg 515

<210> 30956
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064b02d1

<400> 30956

aagaacgagg caagccaaca aactaactta aacgagatta gatggcaact gaatgttgct 60
 caatacagtt tctaaagtgg ctgcaacatc ccgcaggtaa aaactaaaac agaagcattt 120
 ttaacacata catatgtcca aaaatcaatt acaagccaat tttcttaaag gaagaaaaca 180
 cagtcacgga cacttagcag tatttgcta tatcccaatt aatgctacta ccagcagaaa 240
 acctaccctc cctaacaacc ccatctattg aataaaaaaa ggaatctgaa aaacaaaaac 300
 accaaccgca gccaccaatc atcttcatct ttccaaccac caactcaagc acgctcacca 360
 cgaatccttc ttgccagctg aatataccttg ggcataatgg ttacacgctt ggcgtgaatg 420
 gcacacaggt tagtgtcctc aaagagccca 450

<210> 30957
 <211> 333
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064b05d1

<400> 30957

ggaaccctcc aaatagaaag ggggcattta ataaaccaa gcaaccaac gcagcaaagt 60
 cctgaaactc ggtgggctta acaaaaatgt aatcggggt tccggccaac ccaacacatt 120
 taaaccaga ttaataaaag caatTTTgcc accgtcgatc aaaaaccag ttttggaac 180
 aaccattgcg agaagatggg ggagacttaa aactttgtcc gaaaaacaag cttccttgaa 240
 aagaagacac ctggggttcc gaaaagaaac caacctTTTT tgggaccaac atccccctgga 300
 gaaccgccc cgccgaata cttttttttt tgg 333

<210> 30958

<211> 356

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b08d1

<400> 30958

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 aacccaatt tttaaacct cgggcccaa ggggggggt ttttttagt tcggaaaagg 120
 gggagcaaaa aaatttacc aatcaatggc ccctccccgg ggggaaaaca agcccaaatg 180
 gctttcccc ccaacaagaa aaatttaatt catttaccat aacctttta cccccaaaa 240
 aaaaacatgg gggatggtt tttccaggct ccaattttta accaagcaac aaattttgaa 300
 ggggacaaac ccatgggacc ttgaaaggc cccttttttc ccacaatgtt ttaatt 356

<210> 30959

<211> 369

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064b09d1

<400> 30959

aaaacacaat atgccagcat acagttgata attatttttc agtccccaa attgataaca 60
 aacggtggt acattaagg gacaatagag ttcaacacaa accaacctta ttttcaagg 120
 tcattacaga cccattacac ataaaatttt tttttaaaag gttggggaaa atccaacatc 180

gaacatcaca cagaaatcag ctccggttta aaacccccca cgaagacgca acaccaaggg 240
 cagagttgac tccttttggga tgttggagcc agggggggcc cttccatcct ctagctgttg 300
 gccagcaaaa ataagccttt ggtggcccg ggggattcct tccttggccg ggatcttcgc 360
 cttcacatt 369

<210> 30960
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064b11d1
 <400> 30960

ataaacgtaa aaaaaataat tcgcattctt taggctacgt taaatacaaa tgggcaacat 60
 ccgcattttt tatgatacta aagtaatatt tacggtaaaa agttactaat gtaacatcac 120
 cggtagcttc ccagttaata aaggataca cacattgtaa aactacttat ttgccaaggc 180
 acagagaagg gggtaagccc ttgcctagat tagaaccata ttggttgggg gaccaaactt 240
 tagaacagaa ttaggaatga acttgggtccc ttcgatttaa aagggacccc ccttgggtat 300
 ttttggggac ccttaactta aacttgtttt tcttttggcc ccttttg 347

<210> 30961
 <211> 518
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064b12d1
 <400> 30961

agaacagact taattttaat ttattgcaat caaacacgt tttttttaat aaaaaacagc 60
 atttctcaaa cacgcgtgtt tgagaatttg aataactccc aaacacgctc cttacatata 120
 gaactgggga tatgaaaaac aatatcatcg gttcttttct gttattcctt agtatatatt 180
 tctgccccaa ccaaataatg gattgttttc gtataccatt gtgggggtag atttgctaca 240
 agatgcattg caatagggtt tttacttcct tcttccaaga ttattaagcc atgttgtaag 300
 ttgacagcgt atgctgtgca ttgtgatagc tagaagaagc atgctaactt tttagtatgt 360
 tcggggacca gctgaagctt tcagcctttc agtgctcttc taattagatt tgaatcatat 420

ccgcaagaat tggattataa agtcatttgc ttgcgcagat tagaatttgg catagtcctt 480
gccggtctcc aaataatggt ttctagtttg ccacaaaa 518

<210> 30962
<211> 404
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064c01d1

<400> 30962

atctcaacaa acaagaaaat caatacaaac ttgattaaga taccatatat atagtactag 60
atataaatac acatatttcc cagaagatcg acaacctaata taatagatac atcatacatg 120
catcaaacta gttgaagaag caggggcttc aatttcatac ttaattccca cccaaattaa 180
agcacttaat cttccatgat tgccaaatta attaagtagc ccatgggggtc cttcaaaaac 240
cttgtcatag gaatttttct tttcttattt ttgaaagaag aagaaaaaaa aaaaaggact 300
aaaagctctc acagcctatc tcaccccca agagcaactg gttacagtta gccgggggat 360
gaagatactc ctcacaaaca tcacacaag ccaatttccg agca 404

<210> 30963
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400064c02d1

<400> 30963

ggctcaacaa atacaaatat tgatgcaaca tttagataat tgcagacatt ttgtcctcta 60
ttgtatgtta caatctgctg tgatacagga aacagggtat tctacataac catcgggggg 120
ttgggtgata atgagtagca tgtatctcta aatctgcttt tacagggcaa ccgaatacaa 180
taaagatacc aacaaaaata tcataattaa tagaaaagga aagcgcagca ttctcatatg 240
gaaacaacac ttcacgagcc tagaaacggg cattgcttcc ttgcatgctc tggaaccaat 300
ttcacaaaa tctcagatgg gactcctttc agttcatggg atttgaaatt aaatagtggc 360
ggaaggaatc ggccatttgg caagcgagta tttggatcac gaagctcgtc gaagaaagga 420
tgcgtaagg catcaaaagc tgtgcaccgc aagttagggg agtattgtag tagtcttgat 480

accaaatacaa cagcctctgg aggcattgcgc ttattggaaga tctngtgcca tggatgtgct 540
ttaa 544

<210> 30964
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064c04d1

<400> 30964

atagataaaa aaaaagttat tagaattaca gatataccct ttattgataa taaaaatggt 60
atgtttacat ggtagacaat tatcatcctt tatcagggtg cctaccctta cactttggaa 120
cctttttaa atcaatcac agcttggttt ttgttgatgc aacaatcgaa ccatacttt 180
gatgggttga gatctcaa acacaaagcca tgagtgaag tgacacatct cgttcaataa 240
aaactagata actaataaag tatagtttgt agtaataaat aaataagcat actcttttaa 300
atgaatctat acgtctggac gctcattctg atcaaaaata cgattatggc aagtaggggt 360
gcaagggtag gcacaatcta tctcacggaa gggccttcga tcataaaacc aatcaccac 420
tgcccttgca attgatgtct tggccaccac tggggagtca tttctcagcc atgtctcttg 480
tattccagtt tggcagtgtg cat 503

<210> 30965
<211> 588
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400064c06d1

<400> 30965

aaagatccca aaatacatcc tcagtaagat cctcaaaaag agctgggtgca tgttacttct 60
atgtcgagaa gaactgatta tgtgggaaca attaacttag ataaccgaaa agcaatacaa 120
acatctatac aatctgccgt acaacaagca ttaagatatt atagttagtt ctccaacatc 180
cacaatagta aactctgctt tcgtccttcg atgacacaac ttactgttca ttccgaagca 240
aaatcaaaaa agggctccag cgtcttcaat aagcaacctt tccacttcct aatgctgcaa 300
atagttagcc tccagctaca ggtgttactt cctactgcta caattatctc ttccttagcc 360

agaataagat acaatctttc agcagtgcta caatattgtc cttcgcatte gaagcttcat 420
 gaaacttttc agtctctgcc gctatcttca tcaccgccat cagcattaac atcaacggtg 480
 aaaccatact cctgatcaca acccaagtat gaatcacaca tgaaataaag cgaataggat 540
 ttccttccag catcagcagg agcatcaaat tccagtttgg cttttaat 588

<210> 30966
 <211> 542
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064c08d1

<400> 30966
 gatagaaatg catgaaagat tactaattcc agagaatatt caataccaaa gcataatatag 60
 aaataaaaaa ttaacaaaaa ataatcccaa aaggaaaagt ttgacaagtt accaaaaaag 120
 ggtctccaaa ccaaaaacca atacaaatgt tttcatcctc tactcttcca atattgttcc 180
 cttctcgctg acataaatac catcaagaaa cttccggata tccttggttct taacatgaca 240
 tttctggtta atgagagcac atgacctaga aacaagttca atgtcgtttc catccaagac 300
 caattcatct ttgacctttt cagatctaac aaccgacacg ccctcaagca tgtccacttt 360
 cctcaccttc ttctcgccga ggaaatttct gatctcgatg gacttgctgt tgttgccaat 420
 gctagcggtg atcggaaaat gtgcgtacac gaatctcatt ttgtatcggt attccttggt 480
 gacgccggtg atcaaattct caacgtggct ganggcggtg cggatggcng cggagggtttt 540
 ac 542

<210> 30967
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064c09d1

<400> 30967
 aacagccaga aaaaaaattt cccttagcat tgaagatatt aaaacttact tattaatatc 60
 ttcagactga gatttagatc acatcaatag aatatacatg agccattact gtttttcacc 120

ccacaaaaaa gaaagtga aaatatacaa aagcaaaacta ttgactaatc aatataactg 180
 tgcgatctta cgagtctaca actatgcaca acctatcata cttccacatg taacaaaatt 240
 ggtagatata caatttcttt cccttcacca atgagtaa at tggttaacact ttttaataagt 300
 gctccagcga gatatagaaa caacagctcg aaaaggacaa cagtccatga caacaatcat 360
 tttgccaaatt tttctgattc ttcggcatta ctattctcag caaatgagtt taaaaactga 420
 ataccattat gcttttgagc tgaacttccc ccaccatgat cgccgacttt tttccgtttc 480
 tgatttataa agccttgttt tagtctcgcg taatctaacc ttgtatggat tcttccatcc 540
 ctcaaatttc tggttaagtt tcc 563

<210> 30968
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064c11d1
 <400> 30968

aagcacaaaa gacgtggata acttgatatt atttattac atacatgcat agatagcctg 60
 ctctcaaata agtcggcagg aacaaagata gagagattca acgatcttca aatttcacat 120
 ttgccagaaa tatataacag aaaagagggg tatgggatat gagttaagtt ttgatcacat 180
 tcaactacac tatcccaaac cgatactctt aagactttga acttcaactg tactctagga 240
 tcatgttggt ctcaggagct aatccaacac aagccctcag gatgttttcc agcatagctc 300
 gctgctttga caacgcattc accactgggtg taccgggtgg aaccagaggg gccttggtca 360
 tgtaactaag gatggtcgca aactgggtgg aatgagtgga attttccctc attttcagct 420
 ttaaactcga ttcgagtgtt gagctcagca agaaggacca agtccaagat aataggagca 480
 gctaacagtg aatcctcaca tgtgttgtgc aacac 515

<210> 30969
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400064d01d1
 <400> 30969

acgttaacca aacgttggtt taacgaggtt tgaaatactt ctaatgtgaa aaatgagaat 60
 acacccaaac aggcaaacaat gacttttagta gaaagaattt tcaaagtatt gcacctagct 120
 tatttttttt acattgccaa agcaacctaa aattgattat gcttggtatc caaagccgca 180
 ttgaatttca acacatttctg agcacaaaat tctaactaaa tcttcatcca aataacaagt 240
 taaaaactgg agggaaaaaaa acatcgccacc taattgagta tctaattttc cgtcaagtgt 300
 tcgacgattg tctcaatctg cgaagctgat caatccatcg atcatcagca tctcgaccag 360
 cccaattggg aaccactcc 379

<210> 30970
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064d02d1
 <400> 30970

acaacaaanc ctaatatgct gtcataata tatattgccc actaaaaagt ttatgacacc 60
 caatctcgta tatagaatta tacgtaagaa atactcaggt attatatgct taaatgtggt 120
 gttccatct ttcaggatta gaagacaaaa gcatacagca ttgcactagc tagtagcgac 180
 ttttgactt ttccatggct ctaggtgcta gccaattgc ttcagaactc ttcattatcc 240
 tcagcctctt gcaagactca gtgaacatct cccacggaac atcaccaact agcatccaat 300
 ctccatcctt gtcttcatag gtaagaacat attctgaacc atgaaggaga tccatcaatc 360
 tactttcact taaattttcc cgacttgaaa ccccatatga gccacattga ctgagtgtaa 420
 aacaactaaa catcttttca agtgccaaag agaggctcctt gtaagtggta aaactattca 480
 gatccacttt cctcaaataat ggggcgcnct ccatgctgac tntaacataa ag 532

<210> 30971
 <211> 591
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400064d03d1
 <400> 30971

atatataaaag cactttctgca caccaccaac ctcttgaatt ctcaccaa taaacagtag 60
 tagcacactt tacaaataaa ttaagagaag aaaaaaaaag catagaatgg agagagagaa 120
 aaaaaagaga gatagaaaaa gaaacatgaa ttacaaaggc catgacttga atcagatcaa 180
 aattcactgg aaagaggtgc atggtcagag cgaatgaaga cattgccgta gataaggcca 240
 gccaaaccac caccaataag aggtccaacc cagtagatcc agttgtcatg gaagtcacca 300
 ctaacaactg caggcccaaa ggagcgtgcc gggttcatcg agccgccaga gaatggccct 360
 gctgccaaga tgttggcacc aacaatgaaa ccaatggcaa ttggtgcaat ggttcccaat 420
 gatcccttct tagggctctgc tgctgtggca tacactgtgt acaccaaacc aaatgtgatg 480
 atgatctcgg tcacaactcc ttcaacagct ccaacccag aagccacact gtggattgga 540
 gttggcaagc ctntctgtgac atagttgaga agaaaacatg ccacgatgga g 591

<210> 30972
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064d06d1

<400> 30972

gggaaacaaa tttaaaacag tttgaattcg aatattatag attacaacca ggaatcaagt 60
 gctagatcga gactgaaaaa ttacaaatta aaatgattca aattttcaac aatctttctt 120
 gaagaacaag agcattctct attcacatca gtaatgaaaa cctaactaca actacagagc 180
 ataattatca aaactaaaaa agaaactaca aaacagagag gccaaaagat aatctaaatt 240
 tgataataaa aaaatcaaga aaagcgaatc cctatttaag agtcacgctc agcagcagcg 300
 cccttggtatg agccaccggc cttcttggaaggaggagaat tgtgaatgtt gggcataacg 360
 ccaccgttag cgatggtgac gtcaccaaga agcttgetca attcttcgct gttcctcacc 420
 ggcaattgaa t 431

<210> 30973
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064d08d1

<400> 30973

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aggaaaaaaa atcacgaccg aattcatatt cagaacatcg ataatttaca acaacttaac   60
tcgggctcat tctttattga gaaagaaatt cagttcttat actgaatctc atgcacattt  120
ctaaatcatt ctctcattct caaggtctat accattaatg ctccctccat atttctacca  180
acctattcaa tgcaactact ggggatccac cttcagtcac tgcttcgggg gcactgggtt  240
tcattttgaa aatcctctgg ctaatctctt ttcccctatc cgagttcatg agctccttga  300
ctcgggcacc caactcgggg gaactcacta acccggttatt gttttgggtcc accggcaacc  360
ccacctttat tttcttcacc aaaatcacc tattcagctt ctgctccgcy taaaaaggcc  420
acgccaccat tggaaccctc tcacaa                                     446

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<210> 30974

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400064d09d1

<400> 30974

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aattataaag gaaatatcat ttattcaaac ctaaagaaac acagtaacac accatcacaa   60
actcatgtaa ccttgccaat aaaccatcac ccctaaactc cagcaccagc agcttgctca  120
cttcaatata caactcccag aatttctcat gtcaccacgt ggcaagcacg ctgatgtgga  180
gccaaagtgtt gggcttacac gtaggggtac cctccataat acaaccaaag acttaagcct  240
catataataa tattaataaa ggaaactaaa gaaataaaaa gaaaaaaaaa aaagaggctt  300
ttcaacatgg catgcaaaat ggtagacctg atccccacaa ctaggaccat ttttaaactt  360
gtttttctca ctcacactgt ccataggtct aagcttcagt cttctcaaca ggaacctcta  420
ctgggggttc aactgactca gctgggttgc tctcttctc tgnggctgct ggtggtgctg  480
ctgctgctga t                                                         491

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<210> 30975

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064d12d1

<400> 30975

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ggccccgaac cagaaaataa atttttaaac atgaaaaatt acaagtttta aactggtcta 60
atacataaca tacattccgg gaataaacac aagttcagta atttgttcct caacaagttt 120
taaagtccaa gggaaaagcc agcttatttg catgaagttg ttaatacaca aaccctcat 180
aagttataaa atcataaacc cttaaaacca ggaagatcaa tcccctggaa tggggttttc 240
acttaaccac acttcaaatt ttgcaattta agggtcattt tttggacaac cttgccattg 300
ctataagtta tgcagctttt ggttgccagg caattatgct tgggtggggtg tattcttggg 360
actaccgcac catttgggag gccagttaag tttattttca aggcctcttt aaagggaaag 420
aagggaaatt ctgcctctcc cattttgtca tttttggtaa aaggggcagg 470

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<210> 30976

<211> 425

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064e01d1

<400> 30976

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atctgtataa aataagatat atcgtagtat tcaatggatg acttctttac attaactgtt 60
ccaaatatct ttacagcctt aaaattctaa tgatagcttc aattttttcc aaaaatgatt 120
gaataagatt aagttaaggt tcaacatcta actttatgcg catggccoga atccatattt 180
cattcgacaa cttaggaaac tcaagatatt ttcctaataca atcaacattg tttccccatt 240
tgtagtctga attgtggcct tgggtgctctg taggcttaag tgtttcttca tttcctgaga 300
cctgccaaac tcctcaattt ttgctttaag ctaatggcgg gaataaacct attcgcggtg 360
agatgagaac gggtgaatgg attagtacta tcactaagaa gatgcctctg aatgacagga 420
cgatc 425

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<210> 30977

<211> 501

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400064e04d1

<400> 30977

cataaaagtt aaaattcaat aaaaaagcat caaataagtt ttaaacagat aaatggatga 60
aagcaactac acatttagtc cacttcctca atcttggggc cagcaccact tccaccagaa 120
ggagcagcat aatcatcctc ggctgccccca gcaccagcac cacccatgtc aggaccagca 180
ccaccttggt acatcttggc aatgatagga ttgcagatgc tttccaattc cttcattttg 240
tcctcaaatt catctgcttc tgcgagctgg ttgctgtcta gccactggat agcttgctca 300
attgctcct caatcttctt cttgtcagta ggatcaagtt tctcaccaat tttgtcatcc 360
ttcacagngt tcctcatggt gtatgcatag ttttccaaag cattcttggc ctcaaccttc 420
tttttgctgt cttcatcctc agatttgtag ttctcagcct cttgaaccat cttctcgata 480
tcttcctttg acagtctacc c 501

<210> 30978

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064e06d1

<400> 30978

ggaaaatctc aaacttttac catcaaaaca aaaaacagtc ctcatcaaaa acaaacagca 60
acgaaaatgt ttccgccgat caagaacca gttttgaagg ctacgggtac atgaaatcgg 120
ggggcccttc aaaatataac tgggaaaaca aaccctaag actttgcaa gataaactcc 180
tggaaggaa caagtttttt tgaaaccccg ttgatgatca catgggctag caaaattgcc 240
aaaatgcaat cacttttttt tggggggagc ctttgggacc ttggctccgg gggggtcttt 300
cttttcaaca cttttgatga ctccaacagc tacgggctga cgcagtgtcc tcacagcaaa 360
acgaccaagg gggggatact cagagaaagg ttcaaccacc atgggcttgg ttggaaccct 420
tttaaccata ccagcatcac catttcttaa aaatttgg 458

<210> 30979

<211> 385

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064e08d1

<400> 30979
aaagaaacaa ataagtatta ttcaagagaa aacatccttc acatgccatg gctatgtatt 60
gatatttgca ctcaaagcta cggcaaacaa atggaattct attacaatat gaattacaag 120
ttccttgatt ggcatatcaa ggaaaactga aagtgggtgt atgtggattg atttgccaca 180
gccttttatag acaaaccaaa tgcttatttc aacacaaaca cgtatacaga aagaaaccac 240
ttgaagaaaa cagaagaaaa caaaactacc aaattggaag gggagcacca ttccactctc 300
caaggcattc caaaagtgga tcaatgacct tccttgggcc catagcagta aaaactttgt 360
cacactcttc acccggtgag aaccc 385

<210> 30980
<211> 553
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400064e09d1

<400> 30980
aattaagcgt tgctcctgaa ggatccaaga gctttgattg cagaacctct aagaatgtat 60
tgatggtaga ttgcagccac cgcagctcca acaaacggtc caaccagta aatccattgg 120
tcgtcccagg ctttgctggt gttgaagatc acagctggtc cgaaactcct tgcagggtta 180
atgccggttc cagtgcaggg gattgtagcc aagtgaacca tgaagacggc aaaccaatg 240
ggaagtgggtg ctaacacagg aacatgagag tccttagcgt tcctcttagg atcagtggcg 300
gagaaaacgg ttagacaag aacaaaggta ccaatgatct cagcaccaa agcggtagct 360
ttgtttagc catcgtgac agtgtaacc ccacctcgt acctgttga gaacgatttc 420
tggaaccctt tggccaacc agcaccgag attgcaccgg cacactgtgc tatcatgtac 480
aacaacgccc tcaccaaaga caccttgcgt ccaggaacaa cccgaatgtc accgcagggt 540
tgatgtgtcc ccc 553

<210> 30981
<211> 541
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400064e10d1

<400> 30981

atagaaactt ctgtgctata catagcacat atatttgata acaatcatca ttcaaaaacc 60
 acacatgtcc gacagaagac gaaaaagtag acatcaaaca cacgatattt cagacactct 120
 aataatcatc atctccttca ccatcatcat ctccatcacc agactcggca ccaacctcct 180
 cataatcctt ctcaagagca gcaaggteet cacgagcctc tgagaactca ccctcttcca 240
 taccttcacc cacataccag tgcacgaagg ccctcttcgc atacatgagg tcaaacttat 300
 gatcaatcct ggagaacact tcagccacac tagtggagtt cgaaatcatg cacacagccc 360
 tctgcacctt ggcaagggtca cctccaggaa caacagtagg aggctgatag tttataccac 420
 acttgaaccc agtggggcac caatccacaa actggatggt tctcttggtc ttgatggtgg 480
 ccacagcagc attcacatcc ttgggcacga catcgccccg gtacatcaaa caacacgcca 540
 t 541

<210> 30982

<211> 604

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400064e11d1

<400> 30982

aacaagcatt aatagaatth ttattttctca cacaataaat acaagagatt ctgcaaactg 60
 aaaaagggat ttcttactaa agcaaactca aacaagaaca acttcactc atttggcatc 120
 taccgtagta gaacaggatc aaaagcagct ctctgataga acacacgtat gtattatatt 180
 gaacatcttg cacagtgggt cattttctcac agctattgca acttaaaata cttgcaaagc 240
 ttctgcaaat tccaaaacttt cttttttctcc cttctttatg gatatgacaa agtgatcaga 300
 tcatgaaaca ataataatc cattgaatth gaatctgatt tttggtttgg atcgatgcca 360
 ccattcttca tcttaggaag ggacaacaaa taggccaag cctactaatt aagcgcttaa 420
 aactgcatta gtggttggtt taagtgtgat gttagtaaca tcagcttgat tattaaaggg 480
 tgttctttgt acgaagaagc atgccccaat aacaatgtag cacagcagga gaacaagggc 540
 cttcatgtag tgagaagtcc catcctgtaa agngaacctg tgactattat tgcaacgcaa 600
 ggga 604

<210> 30983
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064e12d1

<400> 30983

aagaaaggtg aaccatccgg aaaggaatat atttagaaaa ttgaccacgc ggaagagatg 60
 gtaaacaatca tcgtcatcat acaaggaaaa ttttcgcaac agactcagcc taatcaagtt 120
 gtcttaaaac tacatgagac aaaatatact ttgtttcaag gtgggggagg aaaaggtttc 180
 aaaaacaatg gaattgacat gacagatgag ttaaagacta acacaaaaac gagaaggcat 240
 tggtaaaggg acggcttttc cttgttctgt cgttgtagaa aaatgatgga cgatactctt 300
 tttctatcaa atccttttaga tcttgaagag taggccacca tgtgtagcaa agaagggagc 360
 aaacacaaga gactcaaccg ccatgagctt aataaggatg ttaagtgaag gtccagatgt 420
 atccttttaga gggctcctaa tgggtgtcacc aataacagct gccttgtgac aatctg 476

<210> 30984
 <211> 476
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f06d1

<400> 30984

aatctgaaag taaattgcat ggactgaatc aaatgaacca tcatagtgtc gcttaactac 60
 aaagaaacat tatttttgta accaaggggac tgaaacccga ctaaacacag acatatattg 120
 tcctttgcca ataaaactgt gcaaatttaa ctcttgcaca gcctataatc atcgtttgat 180
 ctaagtacaa cctttcactt tcttgtgtat gaaaaactaa cattgaaaat cattttcaag 240
 gaaagagaac ggcaagcaaa aagacgaaaa attaattcct cgtgactaac tctcactttt 300
 atcacagtac catgagcatg ttgactaatt aataaggatt caactagtgc tgaaaactga 360
 cccaaaacaa aatttaacat tggacctgat ccagtagttc aatcagcgta tctgggaagg 420
 tgaacaaacc agaccagaag catctgctcc aatcactgca agatcgcaaa cattac 476

<210> 30985
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f07d1

<400> 30985

ggcgaatggt tctaggtggt ttacatgtca tttcttacag cgccacacca aggaacaaaa 60
 tgtccacatg atataaaaag gtagaaaggt agttgagttt tggcaacgta aagaatatgt 120
 aaaataacat ataatacatt cagtgggaact tgagactggg caagatgttg ttgtgcacgg 180
 ggtcagccaa atgatctagg aggttttggg atgggccaac acctgtgaca agagcttgaa 240
 caaagtaacc caagattgcc aacatagcca accttcatt cttcacttcc ttgagcttca 300
 aatccttcaa ggacttttta ttcttaccaa agcctagtgg gttgaagaaa ggtcctcctg 360
 gataagctgg ctcaccagaa cctccaagac ccttcttttag tcttaggaag tattgtttgc 420
 ccatagagcc tggtttggcc caatcttgga 450

<210> 30986
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f08d1

<400> 30986

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 agagctacta gtagaatgag tagcagtgc tgggctaccg tcaaacatgc taagtaacaa 180
 tctgattcgg gcaactgatga cagcctaaac gcatgatatc ttccacatcc acagaacatt 240
 agagagaatg gaaggcttgt tactactact caaattaata ttcacatata ggggaaattc 300
 taccgaattg gaacttgact ctaagaaccg gctacccttt gaataactta gaatcactaa 360
 aagaaaattg ataatatata ttgagatttg agattctaaa cctaactctc ttgatctgga 420
 caaccataga caacggattc aggccggaat ttgagccata ctaactgcac catacagctc 480
 agcagcacag caatacttac cgcaaggatt actaattaca taaat 525

<210> 30987
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f09d1

<400> 30987

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 caatggaaga agcaacgagg tcgaccctga gttagtaata ataataaaat gaggtcagtg 120
 ttacttcagt atacatatct gcataaccta actaagctga aatgtcaagc gctcaggatt 180
 tcttcacatc gcgtctcaca aggctgtttc tggttctggc tttaaaaagt tatgatattc 240
 cagctgagtc atctcccctc catgtactgg atcaaattgg catctataga agcttccatc 300
 cataccaaga ataatgactg tattcttttg gagaccaaat gcaactgtgt aatgagagcc 360
 ctcttgtaag tgaaactgag caactgacca ctcagaattg aagtacttgg gcaacacccc 420
 tttcaattta atgaaggagc gagaagagct agatggggta atggcagcat ctgaatt 477

<210> 30988
 <211> 391
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f10d1

<400> 30988

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 cttggccctg ggcccccttt agggggggtt caaaggcccg gggggggggg tctacggggc 180
 cccccttggg ggggggaaag gccagcccg cttttctccc cctggttggg cccaaaaaaa 240
 aaggggaatc ttttattttt gggggggggg gtttgggggc cccccgggg gggcttttaa 300
 aaaaccctg ggggtttgcg tctggctggg ggggaaaatt tttggaaaac cctttctagg 360
 aggggaccaa ccggcttttt ttgaagggg g 391

<210> 30989
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064f12d1

<400> 30989

ggcagtgggt ttcacattaa aatcatatga atggttaaca gctcaagttt aaaactggtc 60
aatgaagaag gggaaactca ccccataatg aggtttgatg gacttacaac atcaatttcc 120
gcttaaattg acgaaataaa aaaaaaattt tattgaaaag aaataagtaa aaaagaaatg 180
tttttcccca ccatacacaac atgcctccat tttatatctc aaaatctgaa gtcaggatcc 240
acatccattg cccagcagaa tttcgccagc agagatttgt tgaaaatctt ttcaatagga 300
acctcatgcc ttttgcacca ggcaactgta atcctagggg caaggtagtt tatcttgat 360
gtgcctaattg ccacaggttt cagatcttct tttggcttca tatcacgggtg ctttttctca 420
atttttgcat tggtttgaga tttttttttt ttttagcattt tgggactcaa gttcttttt 479

<210> 30990

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064g01d1

<400> 30990

caacagggat aagagtacca ccattattg aaataatcac tcaaaataca gtaatgcacc 60
cgtataacat atcaaagtgg cgtgcggaaa acacacaggc tccatgaata tgtcccgaga 120
gcacgatgga ggaggaggag gagtcaaaca caacacaaat acaaattaaa agataatcag 180
tactactagg cagaaccgaa ttaagagaa ttcgagccaa atatcttagc taaatggtag 240
aagagctgaa agacaaggta atttcttcag ccctgaacct ccaccacact tactcctcct 300
cttcagcctc ctccagccaa ttaacaaagg gttccagcgc cttcacaag gtttgccctgc 360
ccttgaggtt tggttcctttt cggaaccaat gaagaatggg ttcttcagcc agcacatcct 420
ggtcataaag agatctaata atctagggaa cagcttcata agtttagcat cctcatag 478

<210> 30991

<211> 558

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064g03d1

<400> 30991

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 gtttctgcac ttagtagaca tttcccatth gttatgtccc taccgtacac ataaatacat 120
 gcagcattta attagaagaa gaaagtacgt acgtactgtg ccattttgat gatgatttgg 180
 ttttgctttg ctatcaatth tgtgttttgg ttggcgagga acctcacaag aggaaacgtt 240
 caccttccac ctcccgagag aaacatthtt gtaaaatact aggtagataa aattcaacac 300
 caagaaccta aatttgagcc cgtggattht tgtcacatth atagatttga tatcttacct 360
 ttaatthttt ttcatagaca attaaattcc cgtgctaata cccctcttcc ttcattccta 420
 tcgtttgcag ggcattgtgac tctatctcgt tgaaacaggt aaacccaaaa tcatgaatac 480
 caaagtcttg acagtccaat aaccaagcac aattatcctt ccaagatggt aacaaaccca 540
 tgttattact agtattct 558

<210> 30992

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064g05d1

<400> 30992

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 atcatgagtc tacatatcaa ttatattctt tattcatatg aaaactactt ctaaaatact 120
 actattgaaa ccatatatac cttataccga tgatattgagt cgtctgtac atctccatta 180
 cttacattht ttatthtttc tgcattgccat aagtggaaat tatacattaa aacgggcaat 240
 ttacagtcaa accctgttga tgatgaatct ttcgattgct tcgttgacca gtagcatatg 300
 cattgattgt tctgtgaaac aaatggacat aactcccatc tttcttagca cctggaagat 360
 tttccgatg tgtgtagcaa attccttggc ctccttcag tgttgggatg aactcattga 420
 taaacatgta gctgaagata gatagtgtt tcaatttctt tgcaaactct ccatgtcaat 480
 aag 483

<210> 30993

<211> 500

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064g06d1

<400> 30993

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caaataaat atactacata taattgaaac agacatcatc ttggggaaga aacatacata   60
cagctaata gtttaaattt tacaacatca tcatcatcac aagccttaat gggcatatac  120
tctggttttt atttttattt tcccttgaaa acaaagattc atacacacat acatacatag  180
gttggtttga atagctaaaa gattactatc atacatgctt tcacgattga gaaagttgct  240
taatcttttc ctcgagctgg accttattgg ctcccacaag cctctcaact tcctttcctt  300
ccttccaagc cacgaacgtc ggcacgccc tcacccata ctctccgcc acaccagata  360
attcttcac gtcgatattg acgtagtcag cgtttgata ctttggggcc atctcgtgaa  420
acagtggagt gatgaatttg caagggccac accaagacgc cgtgaaaaaa atcacaactg  480
gcttagggga gtctttgatc                                         500

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<210> 30994
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064g07d1

<400> 30994

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aaataaatcg agattgaact cggaactttc tttctttaca gaaaaagaaa atgttaaaaa   60
aaatacaaaa aaacaccaat taatacaaaa aaagaaaaga aatcaacgaa ggaacaacag  120
ctgttttagc tggcctccta agtaaagaat tgtattcttc tccttctctt cttttctttt  180
ctcttttctt tttttctttt tcttttcttc ctctcttta gcccgaattt cccttcttct  240
tctaattctt ttgaccaggc tctttcttct ttttttccc tgtctgtttt aatctgtgac  300
ttaaaaccta ccacactaaa aaaagaaaaa accctttccg aaaaagaaaa aaaaaagggg  360
ggggaaacaa aataaaataa aattaattta caggtttgcc gtgattgtag ccgtaatagg  420
aaaggtacca cttgacgaac ttcttcaacc cggtttgcaa atcggtggtg ggcttgtacc  480
cgagttctct ccgggccgaa ctaatattcg cgtgagtaaa cggaacgctg ccgtttccag  540
gcatgtccac aatattc                                         557

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<210> 30995
 <211> 503
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064g11d1

<400> 30995

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 aaactctcgc aaaacattga tatcggtaca accactgac caagtgaccc ttattttaga 120
 atacagttac acgcacaagt gcacaacaca agaccatagg taaaaacata aatggcatga 180
 acaatgagtc aaagcaatgg cagaacaata atattaacgc caccaccact tgtaacagtg 240
 cactcagttc ctctgcagta gcagagaaat tagacatagc ccttgccttt caaactctcc 300
 actgcatcct tgatgatttg ctcaacagga gtgaattcta gacctaaatc aatcagcttc 360
 tttgatgcat cctttccact tgctctcaac aaccctgggt gggatcctt tggcaactta 420
 gccacatcgt attcagggtg taactcagca accttgtcca caagatcact aaagtgacga 480
 atagattcca cacacaagtg cct 503

<210> 30996
 <211> 548
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h01d1

<400> 30996

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 tatatagctg ttatagaggg gacaagtccc gacaagcaaa aacggaaaag ataaaagcaa 120
 tccgaaatat cctaagagca aatatgcctt tattccacta cctacgcac ttctagaaga 180
 cacgatgcta tcacacgggt ttgcgctttt cctacgtacg gtgcatgtat gcatgatgca 240
 tgatgccagc catgctatac gttccttcct cttgggcctt tgggtgcttac ttctgcaga 300
 cccatcttac tacgatttct tttccagcat actaggaaca ggattatata tatagccgat 360
 aaaaacaaag aagcaagatt ttccaagcta cagattttca tctggaatgc gcaagaggat 420
 aatggaagaa taactaagca tgggatacat attggcgtcc agaaactgag catactgttg 480

<210> 30999
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h05d1

<400> 30999

acttatatat aaatataata cacaataaca ttgatgaaaa ctacccaaac ataaaattcg 60
 ctgctctttc tagcaaaaca tagattcctc tttttcgagc catcaaacc tcattagatc 120
 aaacaatata aaatacaaca cgacgtaaaa attaaataaa tatcaagcca cgataatacc 180
 tcaataaaaa aagcccagta tgaaaaggac atgctgtggg gaagcaaaga gaaatgtgat 240
 gcacatcaaa gccccagaa gataacaatg caactgtgaa tctgcgctgg ccagtgtgtc 300
 aacgatagta cataagctgc tgtctcgatg aattaccggg atatccatca tacat 355

<210> 31000
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h07d1

<400> 31000

gggttgggtt tttttttttt tttttttttt ttcttttctt tttgggcaaa aaaaattccc 60
 cgggcccgtt tttttttttt ttcacatggt tttccccaat cccccaacct ttttaagggg 120
 ggcggttatc gaacccctg ggggggcccc ccaaaaagcc cccccacaag gttttggggg 180
 cggttacca taaaaaaacc cccggttccg tctaaaatt ggggcaaaa agaggggccc 240
 caaaaaccaa aaattttttg gggaaaaaac ccccggggcc caaatggggt gtatcccacc 300
 tagaaaaag cccctatatt tcttccggt ttttggggcc ccaaccccc aaagggtccc 360
 ttttggggg cccgggtttt caacccttt agggcccttc ctttttcttt ttttctttga 420
 agggaaacc agggccccc cgaaaaacc tttt 455

<210> 31001
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h09d1

<400> 31001

aataattaat taattggata tcccattata cagtatcctt tccaaaatat catgagacat 60
 aaaaataaaa aacaaagaag cctgggtctct gttcatacaa cattatatca cagattgcca 120
 atcattttat aaactagggc gattcttaat ttagcacaaa gaaatgacat tcaaagccca 180
 cctccatgag aggaagaata ccacccatca aacctataat ggatattcagg gctcatctag 240
 ctgggtcctgg acatcagaag tccaaagggg gaggttgtct cttaaaagct gcattatgag 300
 cgtgctgtct ttgtaggatt cttctcccaa ggtgtccagc tcagcaattg cttcctcaaa 360
 agcctgttta gccatggcac acgctttgtc agactgggtg aggatttcat agtagaagac 420
 ggagatgttg agagcgagac ccaatctgat ggggtgagta gggggaaaaga tccccagaag 480
 caatgt 486

<210> 31002

<211> 584

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400064h11d1

<400> 31002

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 aaacctaata taactctatc taagatttat catatcctaa cacagcacgc gcagcgcgta 120
 tgaattggaa cacagcaaaa atgagcacia caatccccac caaagtggaa cttgctctcc 180
 aagggctctc aaagtacacc aaccacaacg ctgccatggt gcgggtccag atgttctggt 240
 agtgcttggt gagttcattt atagtctcgt agtaaacagt tgtgtttgcc acaacgtggt 300
 tgcttagtcc attaacgaga accgccactt gcttatcact cccaagttca tgcacaatca 360
 ctttcttctc aaccagcaac tccacatcaa gctgagtgtg tataagagag tcaatcagag 420
 aaacatagtt gcaaattgtag ggcttctcag gatagtgaca ctgctcaaag gcaatgaggt 480
 tcctgaacac acattcgggt gtgtgggtcca cttcaactg ggggatccta aaacgtgcct 540
 tgaagtgggt tcagtatggc aagcaaccaa agcaaagaaa ggaa 584

<210> 31003

<211> 540

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400064h12d1

<400> 31003

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 acaagaattt ctgtcttcat acaagacaaa agaaccacca aatgtatgta attcagtaaa 120
 tattgtgcta ccttgacta cttgatctaa ttggtattgt tgcctttaca cccatgagtt 180
 acaagttctc aagtatgcat aacaaacgat ttcataggga acaactacta ccaatgctgg 240
 aaactgaaaa ttcaagaatc tgcaatgggg aaaacagatc caattcgatc acccaatcga 300
 tagcacttga tattaacccc atatggacca agctgaatgt ggttatcctc cctaccaaca 360
 tagaaacaca gggatataca agcaatttca aattcagggc tcaactccaac caaagtgctg 420
 gatacagatt ttaggacacc attccattca aactgaatag tcagaagctg agcttcagag 480
 tcaggagttt ctccccgtcg acggggaaaa atatatcctt gataatcaac tctccccctt 540

<210> 31004
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065a02d1

<400> 31004

attactattg cttcttatga actagccttc caaaccatga tcaatatctc tctcctagct 60
 atcctgagac agaaggattc acaggaaaat tccttgctat ttaatctcta aaagaaacat 120
 gcttgctctt ttgcttctac cagtatacca gccatcatag aatgagtcac ctgaaagggt 180
 caacagggtgc agattcttca agaaagtgtg ctgcttgaaa acattcggca gcttcaacta 240
 atgatgatgc tgtacctca gccttggtgaa gaaggccaag attataccaa gcagaagcgt 300
 tgaatctgtc gtgccgtagc gcatccatca gaaagctttt aactgctgga tttgatttat 360
 tactgcatcg tttaagaact acagcagtgg agattatgct aaggacatgg ccaggatcaa 420
 tgtccaaggc atcaccaaaa gcttttagag ccctcttgta ttgacacttt gcttcgtaca 480
 ctatgcctat tgcattgacat ctgga 505

<210> 31005
 <211> 584
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400065a04d1

<400> 31005

agcaatgaac taattattat ataaagaaga aaaatgtaat gcaagcatac agcttaaaga 60
 acaccaccaa ttatcagttc aaaatgtttt atctactgtc aacattaagt aagtctcaaa 120
 tgttgactaa aacagacatc gagcaggata caaaacttta atatacttat ttttgttcat 180
 ccagtaatcc atggacagtt ccttttattt atcacctaac tggaaaatca acatgggcat 240
 catccaaaat taaacatgtt cccaaatgaa gttttggaga atataaaca ggcgcctatc 300
 gtccacaaat cctattccac atataattag aatgttaa ataccatcatgt gttgggtgga 360
 aattgaagca ctgcaaacta ggctgttaa agagatgac tgttggtga gatctttgca 420
 taaaatcatc cactgggaca ggaagctgaa actgagcttc aattccgtaa cctgctgctc 480
 gcatttctga acaatccaaa ttggtcattg atttaggcaa aagttngaag gctaaagaac 540
 atcgtccata catattagcc tncatattaa tctcagtttt gagc 584

<210> 31006
 <211> 514
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065a09d1

<400> 31006

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 aaaaaaagag aaaaataaaa tcgcaataaa aacataatga cacgctgtta tctaaacttc 120
 aaaaggtct ttgacaaaat caagaacaac ccatgagaat cttctgctta atcgacttcc 180
 tcaattttgg gtccagcacc gttccactg ccagctgcag gaccatctc atccatggct 240
 ccaccgcat caccaccagc accctggtac atctttgcta tgatgggatt acaaatgctc 300
 tccaactcct tcattttatc ctcaaattcg tcagcctcag caagttgggt tccatctagc 360
 cattggatag cctgctcaat cgcattctca attttcttct tatcatcaga agacagtttg 420

gaagcaatct tgtcatcctt gatttgtgtc ctcatgttat aggcataatt ttccaatgca 480
 tttttggcct ccaactttttt tttatgcttc ctgc 514

<210> 31007
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400065a11d1

<400> 31007

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 aacttggcaa tatgactagg ttggtaagac aggattcaac ccgtcttgag acattgcccc 120
 cttectgagt tattgcataa gtnttatect ttacatacaa aaaatgcacg ccccgataca 180
 taactttctc agatgcatgc accgcttata tttgtttcaa ttatgccaaa tcagagaaaa 240
 acaaggaatt aggataagca actattcaac atgattgtgg catacacatg accccgagca 300
 tttctcactt ctccgcatga cttcgagtac agaagtaagc atccataatg tcatacatgt 360
 attcctctca aactaatcct gagaatctcc caccataaac ttcatgaaaa attgatatca 420
 ccaactgcca acaatttcaa aatc 444

<210> 31008
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065b02d1

<400> 31008

acattaaata ctgagattgt gtcactctaca gtacagttat ttaacttgac tcaagcagaa 60
 ttgtctcaca agaacaagta tggtctctta acataaaaaca tctacaacta agagctccct 120
 aatccatttc tacttatgta cagaaccatc aaaattagtc aatgcataag ttaatttcca 180
 gagctctttc agatagcttc tccagagggt gattttaacc tatggataag ttaatatata 240
 agaaaatctt tacttataat aagtatctgt tgagaaattg atcgaaacac aacttaataa 300
 ctccctaatc cacttctact tgtataagga acacaacaat aacaataaca agaattagaa 360
 gaagtgaatc cccaataaca aaaaacaaac cgtactgaca attaacattt gccgacaaaa 420

aaaaaaacac tataaccgcaa cagcgacgcc aatgattggg gaaaacttga cgaagatgcc 480
 taaccagtcc cactgggatc cttcccagat atcgggggat tgaaaatgac ggtc 534

<210> 31009
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065b06d1

<400> 31009

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 accctaatta gaaaacattt tgttttgcaa ttacaatcag aaatggataa agcaatcaag 120
 tccttttata caaaactaca tacaacgaaa gaagacgccca ttttaaacag gcttcattaa 180
 agaggaatca agcgaagaca aatagcatag cttgacatta acatatatag cctactaatc 240
 aaattagaca agacgtaaaa tataaaagat ggatcgatct aattggaagc tacagagaga 300
 gtctgtctag tcgagtggcc aaatagttcc acaactcata gcatcgttca tgacttcatt 360
 gatgtcattg aaactcatat ccaagtttcc aagtgtgaa ttctgtccac cattattgta 420
 cgagacatca tttccatgaa cgggtgattgt tggcgaaaca tgcgccatg 469

<210> 31010
 <211> 460
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065b09d1

<400> 31010

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 aagaacagaa acatgattat ctgtctcacg caaaaaaaaa aaaaaagaac caaaatataa 180
 ccatactgca atgagtagca ttggcttaac ttcaaggcca cagggaaga accatgctct 240
 ctgactcttg catcgaaacc atgttggttca tgtcgctaata gaagtaccca ccatcataaa 300
 tgctgtggta ccacgggtga gaatagggcc acccgtcgtc catgtccagg aacacaaact 360
 cggaactccg gtcgggagcg tcgaaactcg ttccgagcgg cggcagctcc acgatctcgc 420

cgaggatcatc ctccggcgtg gcggccggcg acggaggggt

460

<210> 31011
<211> 453
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400065b10d1

<400> 31011

cacttctatt ggatthtttcc tatatagaca aacgctatta acaaggaaca gagaagggaa 60
cacaattcca gcaccggcct tttacagcaa aaagctcgag tgtgttgtga cgggtgaaac 120
tgcacggaga aagttgcgtt ttgaggtaaa atttatcagg gggcattata gcaaataacc 180
taaagttact actaacttaa tttctagtat tctatgacta gcccacccat tggggcacgg 240
tgtggaattc cttttcttct cttggccgtt ctgtaattaa cagaagttgg aggcgggtgtg 300
gacgggtgtga agctgttctt cttcccatgg ctgctgttgc tgctgtacga agaatcctct 360
gtgtctgatc ccattgccgc tgactthttt tttctctgga agttccttga agtcccaaca 420
atcttgcaac caagagaaca gaatcggaaa gaa 453

<210> 31012
<211> 444
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400065b12d1

<400> 31012

aatcatgaat ttattaaaaa taaattttca acaagttata caaacttatt agaaaaaagt 60
ttaaaaagag tttaggtgat ccccaattta tttttacata tataggttca aacagactct 120
ctaaactctt ctacacactc taccaatgcc ctaacatag gaaataacaa ccaagcaatg 180
gcacacgagg atacaattaa caaagtataa tgacactaat tttaatgcat ggattgaagt 240
gatcttgaac agtgatgcta tattctcatg acttctatgt aggcctttcc atcgagtttg 300
cgagaaaata agcccttgaa gtagtccttt actcctatgc ttttgaatcg tgggtggtgtt 360
tgttcagtga tcaagcttgg tgcaggacct accacacat ctgaacttgg actatagaat 420
gttgcaaatg aaagtctttc tttt 444

<210> 31013
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065c01d1

<400> 31013

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aatcaccaaa tcaatcacat taccacattc acgggcttgc tcgaaacaat atccatagca 60
caggcttaaa gcgtcttaca atattacaga aattgaaatt aaaaaaggaa accttaatat 120
cttcctatgg gagacaatcc tgttcgagta gaatagatta ttttttcttg cctcctttgg 180
aaacaccctt gcgccttgag gggataacaa tctctccctt gagaacagga atctccatga 240
tctcttttgag ctccccgaac ttcttgcgga acttctcgac ctggtcgctcg ctgaccatag 300
acgccgaccg gcttccgagg tagaaggggt ggtccccga ccacacgtcc accacgtatt 360
ccttctgggt cccacctgtc gtcagcacca gctccccgtt gcagtacacc ttcgattcct 420
cgtagaattg cgggtgtatc ttcttcttct tgcaccacac accgcaactga accgctctcc 480
gaacattttt agtgggagct gctgcaactg gaagaaaggg ttttccttgc acgaatgtgt 540
tggtcacaca ct 552
```

<210> 31014
 <211> 294
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065c02d1

<400> 31014

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aaatgacaaa tgaatttcat gtacaaataa atgtctttat atattataat acacataaat 60
ccgcagtcaa accaataact gacttttgac agaaattaac agaaaaaagt tacaaaacaa 120
cccaatttgt aagaactgta gctatagcta taaagaggac gatagctcat gcccttttgt 180
ttaattgtca ttgcatttcc atttagaagt tggaacacat gttagatagt gacaccaatg 240
gcagtgatca tatccattct caccctggat aacatcacta gagcaataga tacc 294
```

<210> 31015
 <211> 443

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400065c04d1

<400> 31015

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acatggtaaa aacagaacca acctttacgg cctcaaaact ttaacaacaa gaaaacacaa   60
acagatcttg tgactagcaa tagtctcccg atttcaacgg ccttctctcc ccaaaaaacc  120
aagacatgaa gttgtcgcaa taccagggca aggctcatct cacttatcga gccaggttct  180
aacc(ccccaa aaccaacgtc taacattgga aacacacaca cacacacaca cacacacaca  240
aactgacaaa agcgtcgacg cgtgcttctt ccaaaaaaaaa taaaaatgac atgcatggta  300
aatacgaggc acaaattaat gcgcacatta cattgcatac ctaggacgac gagatcatat  360
gggattgatc taaatcatat accgtccatg gtcggaaacc attacatgtg tgtgacgtgg  420
agatttgta gagtaaacac aat                                           443

```

<210> 31016
<211> 375
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400065c05d1

<400> 31016

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aggaataata tacgtctctg tattagcaac taattccata caaagaagga tcaacaaatc   60
ccatattctt cacttacaaa ttgctttcac caaaaagaaa aaataaacca acacttcaac  120
ataaaacata ttccaaacag agacacctag atcgaagcga aggggcataa tagtcagttc  180
aagagctagt gaacttggtg acagccttgg taccctcaga gacggcgtgc ttggccaatt  240
caccgggcag cacaagcctg accgcggtct gaatttcctt tgaagtgatg gtgggcttct  300
tgttgtaacg ggcaagtcta gaagattcct gggcaagctt ctcgaaaatg tcgttgatga  360
agctgttcat gattc                                           375

```

<210> 31017
<211> 544
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400065c06d1

<400> 31017

ggagtcaaag aactgtattg atctaaccac caaaattttac acttggtggt gccttgaggc 60
 ttcatgttgg acagtacaac acaaacaaca aaaacgaatc ttgaatcagt attttgcttt 120
 ccactatctg tgcatttcac aagtattaca ataacagaac aacaattcac agaggccctc 180
 caccaccact tgcagcagca gcagcagttc agcaccatc attgatacat gacaacagga 240
 ggaaccttaa acctatcctc aagaaagggt ataggccttt tcccatccac aaggtecccta 300
 taaaacgcat actcagcctc atagtcatgc aagtgaagct cagccttctg gttagtgtgg 360
 taatggtgct tagcagaagt cgatttccca aacccaaaaa tgctaaccct atcacaaatc 420
 cccaaagcca gcatcacagc ctgcatccct gaagagtagt gaaaaagaga accatcatga 480
 gcctctcccc acttctccaa acccttccca ctctccttca caaacctctt caacgaatag 540
 tact 544

<210> 31018

<211> 395

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065c08d1

<400> 31018

caaaaacggg gggggaagga cccaaagcat ttccatactt gggttacattt aaaggggaac 60
 cagccaaaat taaacttatt accccgggaa aaatagcccg gggtaaataca aaaaacaatt 120
 ggagtttgca aaaaggtcaa ctaaataaaa accacctgaa cccatttact ggaaaaaaag 180
 cactcctcca acccaatttc cgatttaaca atatgaacag gtggaaaaac agtcctcccc 240
 tcttttttat ttattttaacc ccagggcagg taattatatt taacagggtc aaccttgggg 300
 gcggggaaaa aaagataaaa accctttttt ccccaaacga tgccgggggg ggactccaaa 360
 aactggttga agaggggggg gcacttttgg ggggg 395

<210> 31019

<211> 527

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065c09d1

<400> 31019

caaaggaaag cgtgttttatt cagtactaaa cagagttcaa aacattggcc acaaagcaca 60
 gatccaaaac tcaaaaacag caatttcga agcagcttga aaggcagcat tatatcagtt 120
 cctaactacg aatttcaatt cttcttcaca gtggcagcat ttatgatgtc cacgaactcc 180
 ggcttcaggg aggcaccacc aacaaaaaat ccatcaacat cgggctgtgc ggccaattct 240
 ttgcagtttc ctccatttac agaacctcca tagataattc ttacagatgc agcaacttcg 300
 gcactcacat tgtcatgaac ccatttcctc aaatcagcat ggacctcttg agcctgagca 360
 ggagtagcaa cctttcctgt tccaatggcc caaactggct cgtaggccaa aacaacattg 420
 tccaatttg atatttaact gcattggttt tgtttgctta gaaacaacag ccgttggtgt 480
 accagcttca cgctgttcga gagtctccc aatgcatgca ataactt 527

<210> 31020

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065c10d1

<400> 31020

ataggttaata gccatccatg aactttgata tcaatcatcc tatgaagaaa cagagaaatt 60
 aaacaaggag gcatccatat gcctaagag gaattaaaag tatagaattt caagccagga 120
 ataattaaat gagaagaaa cagaaaacag atgtaacatt tttgaagacc aaattagtag 180
 tacccttatt gatcctaacc ataccctcac tgataataag attcataaca ctagtgccgt 240
 caaattctgc ttcagttggt gagaggtgca ggatatctgt tgatgcaatc aagccaaggg 300
 ttcctagaag gcttggtgac tcggcgcatg gcgcgcaaaa ccacactggt gcacttgaag 360
 ccagagccaa atgcgagttg ccaaacacgg tctcctcttc taacactctc ttttgcttcc 420
 atgtaagcca actcatacca aatgct 446

<210> 31021

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d01d1

<400> 31021

aaagagaaca ataatgtagt taaattcatg gggcaaattg gaatattaat atatatatat 60
 atatatatat atatatatat aacaccctga tgattctaca ataaaaagta caaattagct 120
 gggggctacc attttactta agccacttca gcgttcccta gaaattcaaa atactacaac 180
 tttagcctcc ccaagtttaa ttatcaaacc cacccaatca gaaaaagtaa aaccaacaa 240
 tatctaagtc acaattaaaa agttgtcact cactatccag tcaaacgacc atgttttagta 300
 ataagtaaat aaatgggggg aaccaaaaca aaaaggatca tgataaaaaa tatatataag 360
 tttgtcattg atgttgatga catgggtgat gattatgatt aggggtttttt tcagaccggy 420
 aaattttttc cggtgaaagt ttgaccgaat tgccaattgg gtggagcga 469

<210> 31022

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d04d1

<400> 31022

caatcacaag tcacaaaata tttttcactt ggaataaggg aataatagaa cagctatgga 60
 aaaaaatctg ataaatccta aaattacaga attctatagg agttgaaaag aggcacatta 120
 cattaggggt gcatcagcaa agacctcagc cagcatgccca tcatcactac ctcccatggc 180
 aagtagttct gtttctttct ctccctcatt ggaaaagtct cgtctttcaa gcttggcatg 240
 agctgcgata tatatcattt tctgagctct ttccaaggaa actctcgaat gtttatttgc 300
 agaaatcttc ttgatgaaag aacaattact cttagatcca aatgaagttg catgcaaaaa 360
 aatgagcctc actgcaagct ttccgaggga tttaaactcg ctgaggcaag tttcccaaac 420
 aagtctactg ctgagtggat tagcaacctt catcttcccg gtaaccgggt c 471

<210> 31023

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d05d1

<400> 31023

aaattgagga ggaattaagg taattttatctt caaataactag tacaaattca ccaaataagca 60
 aaatccacat gctcgacctc cttttttgcta catcagcagt acgatcacia ggaattttca 120
 ccatgaaatc aataatatat ttgaaaagct gaagggaagt ttctcccttt tctctttcat 180
 ttaaaccatt gataatatca ttctcatttt catccaagac tccggtacta tccattgagc 240
 aacgtgttgt tattaattcc aaaagcttcc aaataatact ccagaagaag ttccatctgt 300
 cgcctttcac ttaccatact tcattgtttc tatgttaaaa ccaatagtgg gaaacttctt 360
 agcataatcc tcaacttcat gacagagatt agcaatctta gattgaattt gttcatctga 420
 ttgcatagct gccacaaaat ctttcaactg tgtacctgaa agtgatgtaa ccatcaagaa 480
 gaaaagtgat ttacgtaacg ttaagacact ggctatgctt ttaaaact 528

<210> 31024
 <211> 517
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400065d06d1

 <400> 31024

gttaaagaa agcgtaaaat taatatttga accatcatat taactacaac agttaatata 60
 tgtcaaagta aatgcaaagc atagatcatc tcctgtactt ttccgagaaa ctaaaagtga 120
 tctgaaagta aaggtaatta gtatgtatct ctgcttagga gggcgtgcta tatacagaag 180
 taatggatca gacattagag aaaaccacta gttagcgtgca ataccgcatt tgagagagac 240
 ttgcatgctc cagcttcatc agtgcttcag ttcaaaagcc tacatttgta catgctatgt 300
 acatttcttg ttcagcttac tttgggtcac aattgtacat tgatgcttgc ctcagaagca 360
 atgccaaatg gtgaacccat ttaagcttta taccctatta atcattgaag cctgaataaa 420
 gaactagtct tctgacaggt atactaaatc aaaatattat cgagtcagga aatgaatagc 480
 ttttcaggct taaatgttaa ccaaatactt tctcttt 517

<210> 31025
 <211> 424
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400065d07d1

<400> 31025

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ccccaaaaaa ctcccatTTTt gggggTTTTt tTgtTTtaag aaaaaaattt tTaattggTg    60
gTaagaaaaa ggggccccaa aaaaccaagg gTtcctTggg gacaaaattt ggggggTTta    120
ggTTtaaggg gTTtgactTTt gTTaaacctg ggcccaaatt cggggTTTTc ctccgcgggg    180
tTgggaagTa atatTTTTTTt tTtgggggCc cTtaaattaa attcaegggg cgggTTTTta    240
aaaactTTtg acggggaaaa cccgggggTt ccccaaatta aatgctTTtg aaaaaatccc    300
ctTTTcgcca gTtggggaaa aaaaaaaaaag gccccaccc gTcgtctTTt caaaaattc    360
cccaacctTa atgggaaatg ggccccccc tTtatgggga cattaacgc gggggggggg    420
ggggg                                           424

```

<210> 31026

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d08d1

<400> 31026

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gggagaatta tagcatacaa aatcatttaa tagaaggcct tacaatttac actaagaatt    60
tcctctaatt atacaaaact cacctTTcaa tccccactac ataggaacag cTtaataag    120
cctagcaaag taaaattgag tagtggttaa gcctctcttc cttatggTcc agccaacctt    180
ttgcaatgct ctctctacat ctgcctcgga gtgaagatat gccctTgttg cTTTtgaagg    240
accagggaac aactctccaa ccctctTTtag cagatcataa taaaacgtct tTggggcaaa    300
actcaaaatc aatcgctTgt tggccaatga tgcaaggTgt gcaatcatcc catcagcttt    360
actTTggggg taatgaatta aaacatcaag ggagaccacc gtgtcatact tgccatctaa    420
gctcttcaaa tccttcacta caaactTTTg gcatcacagg cgccggaacc atctTTactg    480
gttacaagct gttctt                                           496

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<210> 31027

<211> 535

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d09d1

<400> 31027

aaagaaaaag caaaccaagc caaaaattga aactacaaa tagaaagttg acatttaata 60
 aaccaaagca acacaacgca gcaaagtcct gaaactcgct gcgcttaaca aaaatgtaat 120
 caggggttcc gacaaacaca acacattaaa accacagata aataaaagca tttttgccac 180
 cgtcgatcaa gaacccagtt ctgggaacaa cagttgagag atgatgggtg agacttcaaa 240
 ctttgtccga aaaacaagct acctagaaaa gaagacacaa gactacagaa aagaaaccaa 300
 catttattgt aaccaacatc cctgatgaa ccagcccgca cgattcactt cttcttctgg 360
 gcagccttgg tgaccttggc tccggttaga tccttcttct caacgttctt gatgactccc 420
 acagcaacag tttgacgcat gtccctaaca gcaaacctac caagtggagg atactcgag 480
 aaagtttcaa caaccatggg tttggttggg atcatcttaa caaaaccagc atcac 535

<210> 31028

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065d11d1

<400> 31028

ggcatcatta agaaatttta tagaatgatt ctcaaacttc attagcagct gctttttcat 60
 tcattgtcct tttgtgtaat cctctactgt tttcaggttc gttttgttaa ctacattccc 120
 catgctcgaa aaaagtctct tttgaacggg gttgtcttcc cacttgata tgcctctttg 180
 ctaaaacatc aagagctgta actacgtcac taatcaaagg tcgggtatca gcttctctct 240
 gaatacacat tgctgcaact gctagtgtt ggtgtagacc ctttggtggg tagttccctt 300
 tcagcaatgg atcaaccatt gatgaaaatt tccttctgtc tttgaatagt ggttggtgcc 360
 aagtgaccaa gttttgtctt tcagatgggc ttgactgac aattgctctt cttcctgtga 420
 tcatctctag aaacactact ccaaagctat atatatctga tttttagtc aattgacctg 480
 ttgaggcata ctcaggtgca cagtagccat aagtttccat taccctgggg gatacatgag 540

<210> 31029

<211> 425

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065e02d1

<400> 31029

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gggaaccag attactgata aattcaatcc atataaataa aagggccgct ggggaaatct   60
caaatacata tttttttcac ataaacaatc actaacagac tactggtttt taaatgctgc  120
tcaagaaaaa cttttattca acgaaaaggg atccataatg gaggggtaaa cttccttacg  180
ttttccatgt taatcatatg gaattgggat atatgctgca tcacagatga aaggaatgtc  240
agcttacata ccaacaagag cgcccccttat gctctccaag acagtaaaga gataaccaat  300
tgattcgga gtccaaaaat gctttccag tttacccag ttgaggata ggggcattca  360
acgggtcaca gtccctataa cctgcaggga aatctccaat aacattccca tcacaacatg  420
aaatt                                             425

```

<210> 31030
 <211> 554
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065e04d1

<400> 31030

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ggaaaatctt tcatatattt atgtattata tattatctga ataatgcagc aaaactggaa   60
tacatgttat acaaagggtga taactaatgc ggctccgact gtgagacaat gcaattctcg  120
tccatttcca agaagcggga aattccctga tcttgatctt tctcttcaat aaggagacga  180
gatttgata atatactgat actgatatgc catgaccagt atgaattggg aaaacttaga  240
tgcaaaatat ctactccat agaaaatagg agatcaagg tccctaggga gaaaaaaga  300
aagaaaaaag ggaaggctct tgcttacata aagtggatg cagcgattta cattctttgt  360
gtatgtccag ggtatacaat acatgacatt ccgctaacag ggacaggcat cacatattac  420
cgtccagtga ttatattaat acgttgactt cttggtaaaa tgagacaaat aagctttaca  480
acaagaatgc accataatac acccagtaca atattacaca tataatgaaa gttagacaga  540
tgtgtctggg gttg                                             554

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<210> 31031
 <211> 339

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065e05d1
 <400> 31031
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 aggggtattgg tctcaaccga gacaaaaatg ccgaaataat tttccacca atttgaaagt 120
 ttgaactaca gatttggatg attaactttt caacaaaccc gcccttttcc cccagcaaac 180
 atttggcaca ggggccattt agatttcaag agcaaagaat cttttgggcc aacatctttg 240
 ccaatggggg aggggaaagc attttggcac agggtaattt gttactttgt tccaccaaag 300
 atgccctaga ccccatTTTT tttatgtttt aaccgccct 339

<210> 31032
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065e07d1
 <400> 31032
 gattaaactg agcaatgaag atgagaccgc tcaatctttc actaataact gcaagagtaa 60
 attaaaactc tcgcaaaaca ttgatatcgt tacaaccact gatccaagt acccttattt 120
 tagaatacag ttacacgcac aagtgcacaa cacaagacca taggtaaaaa cataaatggc 180
 atgaacaatg agtcaaagca atggcagaac aataatatta acgccaccac cacttgtaac 240
 agtgcactca gttcctctgc agtagcagag aaattagaca tagcccctgc ttttcaaact 300
 ctccactgca tccttgatga tttgctcaac aggagtgaat tctagaccta aatcaatcag 360
 cttctttgat gcatcctttc cacttgctct caacaaccct gggtgggtat cttttggcaa 420
 cttagccaca tcgtattcag ggtataactc agcaaccttg tccacaagat cactaaagt 480
 acgaatagat tccacacac 499

<210> 31033
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065e08d1

<400> 31033

gataggaaaa tgaatacttg aattatttcc accgactgaa tatccaaaag tgacatagct 60
 cagaacgtaa caaataatgt gaaacatgaa aaagaagctt ttatggccaa cacgaataaa 120
 aacatcatca tgaatagtat ttacaaatga tacatgctta tttgggtgag ggcatgcaag 180
 caaaacacaa tatgaggagg caagagaaaa tttgattact ctcccaagaa atgcacttga 240
 tcatggtggt ggtgtctgca cattagagtc agattcatga gaggattgcc tgtggtggtt 300
 cttcaactca ggatgcttaa tctcctccaa cattctaaca acttcatcca ttctaggcct 360
 attatcagac cccttagcca cacatgccag tgcaatctga agcatctgca ccctctctc 420
 ttcaacatat tgccctctca gaagctctc atcaaacact tcagcagtc actcctctct 480
 cacaacagac cttaccacc ttggaagatc aaccacatct tcata 525

<210> 31034

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400065e09d1

<400> 31034

acccaagtct aactaggcat ataacacata cagaatcaaa tagaacacac ttatttaagc 60
 atcataaacc tagaaattaa cactagcttg gaatcaccaa tccttattag gggctcactt 120
 gaaatagata agtgaaggaa cataatgcac atcagttaca agcctgaaat agtgaccgtt 180
 ttgatttctt taagccgagc agaactagaa gtattccaag gtagtctaaa ttgtaagaca 240
 cctcaagtag ttggagctta tcaagagtcc atggagggaa cctaaaccaa aaatcagtca 300
 agtaacttct tctagccaca gccttatggt gactgaacgc atcaaaggag aactttccat 360
 ggtacttgcc aaaccacat tcaccaactc ctccaaatgg tagggtatcc gctacgtact 420
 acacanagat atagactagt taccattcaa tcacaagcag ctt 463

<210> 31035

<211> 579

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065e10d1

<400> 31035

gtgcagcaaa aactaatttc tcttataatt atttatacag aaacttttcc tatgagaact 60
 tgtaatagag ttgaaacaaa cagttacaac ttaaaaggac tagaatttca ctccggaact 120
 cctgagattg cagatgatga tgactttgag tagcgttcaa gcaatgatag taccttggca 180
 gcttttctcc taagggtgtcc atccccatat atattcatgc cagtgaagacc aattaaacgt 240
 gatctagctg ttgttccata gtattctacc atttcctttg acacaaacac cttctccaac 300
 agtcctagag cttctgcctt tagagaatca gttccccagt tcaaaatgtc cattatggac 360
 cttattgcat tatattcatg caagacacga gctccccctt aaggaaaatc ttccaaaacc 420
 aatgtggaga gtgtttgtat tgcttcacaa gcagttgcat gaacctcccc atgtaacagc 480
 tttatcaagc caggtaaagc ctttgcttct aaaagacaaa atgtggtggt cacactgcat 540
 acactcccat gtgcttgaca taacggaaca cgcgatgat 579

<210> 31036

<211> 429

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065e12d1

<400> 31036

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 acaaacaaag aaaaacataa atatttccag gatattcatt cctcaagcaa tcgaattact 120
 tggtagtttg tgctaacttt acttatgaaa tctctttctg cagattcttc cactgtttct 180
 tttctcaaaa taaagaacca aaaaaatcag agaataataa aagcctcatt gttaaaatgc 240
 tcatatatat aatcagaagg ctgcccaccc tgaagctgtg gtcgatccag aggtggttgt 300
 tgtgggaaga tttttctgta gttgagaaaa atctgataaa gcgttggttag aatgtttcac 360
 actttcgtat gtcccttttag gaccagtagc acgactggtg gaagcagtc gagcagcaac 420
 tggatcatt 429

<210> 31037

<211> 345

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065f01d1

<400> 31037

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aagatatata ttatatatct gtggagatga ctcgatatgc acttctcccc catggctgcc 120
tttattattc cctattatac atccaccaac ggtgctgaaa aacatccaca tcttataaac 180
tctggttatg acggttgaca tttatatggg gcggttatgc acatccacgg cagtcgtcat 240
taccgagta atggccatac atatctggag atgcattgtg cgcgtgctca cccttcatat 300
ccgtatattg cgtgtggtac tatgggcacc aacgccctac ccttt 345

<210> 31038

<211> 308

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065f02d1

<400> 31038

gggggggggg ggcaaaaaaa aacctttttt ggggaaagtt ggggtcaacc aaaaaaaat 60
gggcggttta tctacaaaaa aaggttttgt acgccccccc ctcgggggga aatttaaatt 120
tttttggggg cccttttttt ggggggggga agggggttat ccctatgccc aaccggggg 180
gggggccttt ccaaaatggg ggggggggag aacaaaaaaa aaaaggggct ggtttttttt 240
gggggggggg ggggactcga cattctgggt gaacaccccc ccgccctttt ggtggggggg 300
gaaaaatt 308

<210> 31039

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400065f03d1

<400> 31039

gaaatccac caaagagcca aatgccataa ttaggatggc taaaaaaat gaagtgtcca 60
caataaatg aaatacattg ggccaataga gattacaact caattaagaa taataataaa 120

aaaagaactt tttcgggtgta caaatataaa catttaaata aggaatataa tataattaat 180
 taacaaagga gagagaccgt gttttcttcg gaatgtagta atgtccaaga taactaacta 240
 agaccaaaaa atggcaagtg gcatgcataa accttaagca taactctgta gctttcttca 300
 tcaataagta acaacatagg aaaccttaag gtaatgacaa ttggggaaaa ctccattaaa 360
 ccccttttct gggccaccag ttgcaaattg caaggaccaa ttgagccaca ttatgaatcc 420
 tgtgaagatc gtatagagaa atgtactggc ag 452

<210> 31040
 <211> 315
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065f05d1

<400> 31040
 caaaaaaagg ccccggtttc ttttaattca aaaaaacggg gggggaaaaa aaaaaggaaa 60
 atgtttccat aaaaaccac cggaaccc cgaaaaaaa aagtaatagg gccttttctt 120
 cccaaggcc caaataattt ttgaaaaaa aaaatacctt tttttaaaca aacccagta 180
 ataacttttc ctgggagcac ccataaaggc cctgggttaa taaaaccat ggcggaaaac 240
 cagggttttt ttgggggcc cctccctta ttttaaac caaattttta attcccccc 300
 cggggggcct ttcaa 315

<210> 31041
 <211> 475
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065f06d1

<400> 31041
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 actaagaagg ttcagttcca ctacagccta gtagcaggac ttgccactaa ttgacatttt 120
 aaggttggat tcaaaaacca tcaataaaaa atgtaggaag aagaaaggtc aaggactact 180
 acatcactgt tataaccacc aaacccttgg ccttcctcct accccttttt ttgtcgtttc 240
 cttttaatca acattttctt atttaggttt ttgtggccat aatgtgatga tcacttggcc 300

atcatcacct taacgaactc ctctagttt atttggccat cgccatcaac atcggcctcg 360
 cgaatcatct catcaacctc ttcctcgggtg agcttctccc cgagggttggt catcacatgg 420
 cggagctcag cagcagagat gaacccattc tggctcttgt cgaaaaccg gaatg 475

<210> 31042
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f07d1
 <400> 31042

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 tgatttacca acaaaaagcta aaacgctagt cattgagaaa aataaacaag taactacact 120
 tctttgatag cagttccctt ccccatctca acaccattgc cataatcatc attctccacg 180
 aatctggacc agaaggggtg tgctttccaa acctggttca tttcttcaat gggaatgccc 240
 ttggtttcag gcaagaagaa gtagatgaag aatgtcatga tcaacacgaa aaaggcaaag 300
 aagatgaaca agccgaactt catgtggcaa agcattgtca agaagacttg tgcaatcaag 360
 aaagtgaana acatgttcac cgacacattt atactttgag cagccgaacg gatctccaag 420
 ggaaagatct cactaggcac caaccaacct aggggacccc atgaccaggc aaatgctgat 480
 acgtaaattgc aaatgaagag aaccacaaca actgcttacc attttggcaa 530

<210> 31043
 <211> 544
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f09d1
 <400> 31043

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 atagtaataa taataaaacc aattcaatgt gtagggatgt tatttctccc ccggggtagt 120
 cccacaact ttcttatcag ttatcacgaa aaatttcgga ttgatctgca aacatagggc 180
 attgcagtat gatacaacag agaagcttat ttacatctga atctttaaat gaaataaata 240
 atgagattaa ctatgaccga tcatcatttt gctcatttgc actagctggg ctttatatat 300

agatcgtcac aaaagcttat tgaacacatg gctggatcag ataacatata tatatgacac 360
 ttatcaagga ctgactataa acatccaaaa agtagttctc ctcagaaaag agaaagaatt 420
 ggagttcaac gtatgattga tcaactgcct ggaggttcat aattatctgc tttcatgcaa 480
 attcctctct tttcccattt tgttctctggc tgtagagagc aaagctgtgt tgcaactgca 540
 cgta 544

<210> 31044
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f11d1
 <400> 31044

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 aaagtcagat cctatttggg gcgaagcaca tacatacagc accgctaaac aatcaccaca 120
 atcttctctga tgacatcaag gccaatacat aatttaatgc tccaacaaag cctcgttaacc 180
 ttagctgaat tgattgtaca ccaatcagct aagtctaacc ttactctctc cacacgatca 240
 aaaaatgaaa agggaaacaa aaaaacttag gctccaccac agaaaataaa atggagcata 300
 tgccactggt taagttaata acaatacatt cctttttcat ggatatcttt cttaaattatt 360
 atcttctctg atccactgtc ttcattcatc aattagatca cgtaacttgc cttttgacaa 420
 acttgattgt gcaagctgag ccaggaaacc ttcattcata tactcgc 467

<210> 31045
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065f12d1
 <400> 31045

cattcattaa ctgtttggaa ctttggatta tatcacatta cctctttcaa acaaaccaga 60
 catcacaaca cagtgaagtt ggagaactag gaccggccag caaaaagaga actaactagt 120
 accaagatcc atcatacatt aattgattcc tcacatgact agagaccaac gaagctcact 180
 attaattggt tcaacaacac ttgcgatatt atataatagt attcgtgtag atacgaacac 240

accaacactt gatgacaacg ccattctcatc ccttttggca aaagcaagct ttaagtccag 180
gaggaaaatg gagcaatcca aaagtcagtt cttggctttc cctttctggt cagaatggcc 240
atagtaaagt tgcaagcggc tgccatcaaa aacagaagag aactgatgct ggtgatggtt 300
gttgttgttg ttgttctcca tggcaggagc agcaactgca gcagcagaag aagcagctcc 360
aatgaagaaa ggtacagtgg atccgtctat aggcgaaaac ctctgcgagt gaggcaacag 420
aaacggagaa ttggactgaa ggggtccccct a 451

<210> 31048
<211> 521
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g04d1
<400> 31048

aaccaagaat tgtccttcca taataattaa tgaatgttga ttgttgaata ctcatgcaa 60
ttacaaggat taaagtgtaa tgaggagaca acaaattttg ttcacttaaa gttaaacc 120
agattatggc agctgttgtc acatgggtaa gcacagtcaa tagctttgac aacttctcga 180
tcaaaatacc agtctccaac agcaactgca attggcttgt cctcgataag gggagagtca 240
tcagcaaacc atgtctcctg tctctcagac tgacaatgag caaaacaaga atttatgaat 300
agcccagttt gagatgagct tgagaagtct ttaatgtcac ccagcatttg atttctgaag 360
tcttgaagga actgcatttg agatgagcta caatttgcac ggttcgattt gcattcattc 420
caagaaccaa ggcggtcagc tgaaagtggg gctaaactgg cttggacctg ccacacatca 480
taagcagcat tgagtagaaa caatgggggc tcaacatggt c 521

<210> 31049
<211> 560
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g06d1
<400> 31049

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aactaaagat tatgcaaagt gacgtaaata aataataaaa aatgcattaa tctgttacta 120

gctaaagtag aacaatgtgg tgttgccat ggattttagg atcagctgct caatcaaaga 180
gatcattctt atttgaagc attgaaatgc taatcaagct ggtacctggt aattctgctg 240
gaacagttac agcctactat gtaagttcac tggatctcag agatctcaaa aacactaaaa 300
tatgttcttt tgaacaacca aatctatcaa actcccgtta ctaaatagaag tgtccatggt 360
tctcactcaa aatccatata gttatcctct gcaggaagcc agcatgacga gataagattt 420
gaattcttag gcaacagtac aggacagcca tacactgtcc acactaacat atacacacaa 480
ggaaaaggaa gcagagagca acaatttttc ctctggtttg acccaactgc tgattttcac 540
aattacacca ttcactggaa 560

<210> 31050
<211> 374
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g08d1
<400> 31050

aaaaaaagg gcttttgttt ttttcccaag aaaaaatta aaaaatttcc cggggggggg 60
ggggggaaaa aaaaaaact tttgccccac ctaaaagaaa gaccttaaaa attagggggg 120
gaacaatttt taccttctgg gttctgaaaa aaagggggcg gggggccctt tggggaaacc 180
ttttccctt caaaaggggc tcaatttggt tcgggaaaca aaaaaaatt tttcaaaacc 240
ctagtttttg ggtggaaaaa cttgggcccc cttccctttt gggaaacata aaaaaaac 300
cccttcccca attgaaaacc cccatttttt cccttttttt ttttaagggg ggttttataa 360
aatttttata accc 374

<210> 31051
<211> 451
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400065g09d1
<400> 31051

aaaaaaaaa tatatcacat taatcatgac atccgttttt taaataaaaa aaaaacttat 60
tcctcgtttt tcacaattta tataacattc cacttcttcc tttatagtag tctttggcaa 120

agagagaatt taccctttt taccggtcac attaaacaac aaaagcagag gtttaataga 180
 attttttagaa acacactcag aaaccgaatc caccaccacc tctattatcc attccccctgc 240
 ttcagggcctt ccgttcccaa cgaccaatat ttacaacat tacacaacac attgccacgt 300
 gccagtcttc aaacgaggggt cttgcatgtc gaagtctgcg ggtcccacat cgctggcacg 360
 agggaccttt ttccattcgc accatgcgca ttgtagctag ccccggttgc tttatccacg 420
 agaacccgac ccggataccc gggtacgac c 451

<210> 31052
 <211> 398
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065g11d1

<400> 31052
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 aatcaattca aacttaactc ggaagaaaag aaaaaaaaaa. aaaaaaagga cccaattccc 120
 gggcaaaagt tgccatttta agacttacat ccacaaacaa gaaacaatga ttgccacggg 180
 catgaaaaaa cctttaactg tttttttatt caaactcact ggattcgaag catcaaccga 240
 tgaacccgat gaccagatg aagcatcagc agcccctgcc cggacatttt tttccggcctt 300
 ggatggcgca ggagcctccg ccggtgcaac aaccggtgcc gtcgcgccga aaagcttcat 360
 aggaagaagc accttatcca cctgatacac tgagagct 398

<210> 31053
 <211> 487
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065g12d1

<400> 31053
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 cacataccaa aatttaaaca aaaaaggtaa aaagaaagaa attaattggcg tgtttgacaa 120
 ataaaattga aagtgcagct gccaaatgga tcaactcaac atggttgcaa ccaaagctat 180
 cacaagcgac atcaacgttg ctccaccaat gctaaccaca ctactgccc cagatttatt 240

ctgatgctga tttgtttctt cttgatcgtc atcagaagag ttatccttag cagctttggg 300
 agactttgca agagttgatg gagctgaagc tggagcctta ttggttataa agaaatctag 360
 aggaagaagc accttgcca cgtgataaat cccaagtttg ttatctgagt atactacccc 420
 gagaacgggtg gcattgacga ccccggttga aatggtgaca ctgtttccta atgcattcac 480
 gttcaat 487

<210> 31054
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065h01d1

<400> 31054

atcttcatca gccttagcaa tttcagcctc tggtggccat gtctgctctc cagcaagagg 60
 atcaggtata tttcaacca ctaaggcttc ctggttttga ggatcaggag ctagagaacc 120
 aatgacctct gcatcatgca tttcatcagc atccattagg gcctgatttt tccttgaatt 180
 .caaaggacaa ggatctttta gaacttcaat tttagacaat tggaaatctc ctgcacctga 240
 aacatgaacc aattgattga ctgagagggt accagaacca aggtaaccag tgagaaacag 300
 ggggcatttt tcagagggtgc catcatattc tgcacaaacc ttttgagaca agaggtatga 360
 tcgttgagtt ctccaatgag gaactttaag cctttgctct ttaaagagcc acaagaactt 420
 gtgtagctca tcctttgtat cagctggata aa 452

<210> 31055
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400065h02d1

<400> 31055

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 cgtgacagta atataactaa tgaattcatc actacacaac gttaacaggt tgatgggggc 180
 catcctttga gttttgcacc tgcaaatgat gagcattggt tattcagtga agcgtgcaac 240

agaaaatgtg aacgtgtttg atggcttcaa aatgagttaa taacgggcat aattttgtct 300
 ttgctttaag gacattcaat ttgctccctc taaacataga aaaaccatat ggatgagaga 360
 atgacctgtt acactgtagt cttgaagcat aattatgatt gttgcaattt gagcacatcc 420
 aatctccact acgccattgc tttgctctaa caggtagaat aggtaaaaat gtatttaaaa 480
 tgtgaatcta gaaaagtatg atagctctt 509

<210> 31056
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h03d1
 <400> 31056

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 tttacttaag aataatcgaa atgaacaaag gtgataaaca aaggatgaaca aaagtgaag 120
 aatttacaca cacaagtggg gagtcagttt agcataaatg tttcaagcca ttaacaaagg 180
 taaattccct acaagggcat catctcaaat gattctcact ttcataagagc taaagggcaa 240
 ctgcagcaat ttagtcatag gataaattct gaagattact gaggattggg aggacggcta 300
 ttggcagcag aaacccttga gcccattca agcaattctt tactgggtgtc atccttatga 360
 acaatcacct caatgaagca taaggagtct ttcttgggtt ctgtggctgt ggcaattgct 420
 tcaactagct ttctttttaca gaacaccttg gca 453

<210> 31057
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h05d1
 <400> 31057

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 cacatgcata tatagagcaa cacatttcaa ggaaacattc tccaaaccat actgatctcc 120
 caaaataaac tggaagatga ttaacttaaa gacacacata tatatataag ccaaagcat 180
 atatatatat aagacaagta gaaggaatat gtcataatt gggtgcttat gcttcagcca 240

aagagatggg ggtgcttctt tccatgagct tctcatctt gtcctttgc ttccttttcc 300
 tcatgatgtt catggaaggc aaaccaccca gatccactg cagctgctgc tgcaacctcc 360
 tcttttatct tgtgcctgtg agcatgctct gggcttttct ctgccttgtg cttctcatgc 420
 a 421

<210> 31058
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h09d1
 <400> 31058

ccaaaaccaa ttgatttttt tattcatcaa agttgctctt cgaatctggg ttgaaaaca 60
 gcccggggat caaattggca acaaaagttt tcctatagcc aaaaaaaaaa aaaaacaatt 120
 gcagttacag ccccgagatc aaaagatgaa ctttgtttta agacagcact ttttcactt 180
 caactgtcac cttttggggg ggtttctcag catgaaaatt agcaccaggg cccttttttg 240
 aatagtaatc aatacccggt tcggtttgct tgggaaatgc ctccagtctt aacttaaaaa 300
 cagctgcagg gtcaccttg cgctggataa ggggttcacc agtaacatta tcaacaccaa 360
 gaaccttagg gggagcaaat tttgtttggt aggttctgcc actggatgg 409

<210> 31059
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h11d1
 <400> 31059

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 caaggaaaac tgggaagttg ttgtatgtg attgatttgc cacagcctta tatagacaaa 120
 ccaaatgctt aatatcaaca caaacacgtg tacagaaaag aaaccactct tcaagaaaac 180
 agaaaataag aaaaactaac atattggaag aggtgccccca ttccactccc caaggcattc 240
 caaaagtgga tcaatgatct tcccttgga caaagcagtg aacactttgt cacactcttc 300
 acccggtgag ataacccttt caccagttag caatgctgtc cccaactcct ctctcacaaa 360

cttgatagaag gggtaagacc tgcattcctt gatcttggtt ggaattgcac attggtcatt 420
 ctcatatgca actcttgac cttccacttt cttaggcaaa aggggtcttta actcttcctc 480
 aaatgttgca atcttttgga a 501

<210> 31060
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400065h12d1
 <400> 31060

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 gaatatccat cagtcatact tgcaattgca tccatattaa tatcagaaga caagtcctct 120
 tttgccagta taacttttaa tatttttgct ctatttgag catcgggcaa atttaccatt 180
 aatctccgag gcagcctccg aatgacagcc tcacttaggt caaaaggcct attagtggct 240
 gcaagcaca gaactcgctc agtatccttt gtgcgtaagc catcccagtt caccatgaat 300
 tcatttttca tctttcgcat ggctcatgc tcccaggat tttcctcct gcccaacatg 360
 ctatcaactt tgtcaacaaa taccagcta ggagcaattt tactagccag ggaaaaaaca 420
 gctttgacat acttttcacc ctaccaaac cacttagatg tgatacttga catggaaatg 480
 ttgatgaaa 489

<210> 31061
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a03d1
 <400> 31061

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 tttgggtaaa agaacttttag aaaaccactt tgccattca actaaacaca acaatgaaag 180
 atgaattaaa aagtcagtgt acagattcct ctgaatgaag tccacatcc tcccttccat 240
 gtaaaactcg tcaactatgac gccgaggcat gtgccgttca tctgggaaaa ctattagctc 300

atatgatttt ccagctgcca caagtgcatt gataagtctt gcagtgtgcc taaagtgaac 360
 attctcatca atcatgccgt gcacaagcaa caaccgccct ttaactgggtg cacttggttc 420
 ataacagaac cgctttcata tcctgacttg ttttcagatg gcaaccccat gtacttctct 480
 gtgtaaaacg tgtcatatcc atcccatg 508

<210> 31062
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a06d1
 <400> 31062

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 ggggggcccc cccctaaaaa aaaccctggg ggggcccccc cagggggggg ggcccccccc 120
 cctcaggggg gaaaagtttt ttttcaaggg ggcccaaata aaggaggagg gaaaaacccg 180
 ggggggaaaa acccctttta attacaaaag gggggggggc ccggggggta atccccccaa 240
 aaaaatcccc ccggggggga aaaaccccc ccaaaggagg gggcccccaa aaaccccccc 300
 ctttttttcc cccaggttg gggcccccca acagagacct acccaccacc caaacataa 360
 aaaaccccg gtggaaattt tggggggggg gtggggggcc cccctttttt tcgggggc 417

<210> 31063
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066a07d1
 <400> 31063

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 tgacatatat catcacttct ctccccactc tgttcttttc ttttctataa aatgaataga 120
 aaggtcacct tactgcagct gacttccaat tttctaattg tggttatcac tgagtatcat 180
 ttaataacac agcaccaaag acttgaagat attcatcaac tattctttta catttgaata 240
 tcgattactt gaaccttctt tgtaagacga agcatattat actgtttatt ttaaagggga 300
 aaatatatat caatcttgaa tattgaaata aactgtgtaa tgctcgtctc tgaatgagag 360

taatggctgc aaaagaaaat tcctgtttgc cccttttagcc acaaaactga taggattgta 420
 ttggctcaat ccttgcagag caacaaagct ngctgcttgg ttaaaagtag catcagaatc 480
 agatttgcaa ctgagcttga ctctgcact agggctcata ccactgtaca cata 534

<210> 31064
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066a08d1
 <400> 31064

cataaggaaa aataatgggtc cacaacacac ttaaaaaatt attatcataa agtttttctct 60
 tccccaaaat tcaccggttc ctcaatattc cataaaggaa tacgaggtat aacaagattt 120
 taaaaaatat gccagggggg aaatctacta agataaggga aaaaatacaa gtttcagaat 180
 ctggttctta attaatacaa tagtaactaa aattacaaat gaaaagatgc atttgaatag 240
 tgcttggtac ttcagaagaa tcagcagagt ccaaaactaa atgattgatg catcttatga 300
 gggatatctaa tgacccatgt aaggagcacc agcaccagga tgagggtctca caccactgcc 360
 ctgtcccatt tgaggattct ggtatccggg ttgcattgct ggctgggttc cataccccat 420
 agcaggctga ttgcatacg gagcaggagg tccgccttg ntaactgggg ccccccaag 480
 ccctcaagca gattcccagc ccc 503

<210> 31065
 <211> 329
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a09d1
 <400> 31065

aaaagggggc attgaaacaa gccccccctt taatgctttt aaaacaattt tttttttttc 60
 aaccccagca aaccccctgt ccggtttgag aaagccacac ccaaatttag ttttacaat 120
 gcttgtaaaa atttgtgagg gccccccctt aaattaatat ctcaccttca ccctgggtta 180
 tttaaaacaa ctttgcttcc acttgtctaa tcataaaaac ttgtgatggg gggcaaaatt 240

tccggagtta tgttgccac acacttcctg agggaggggt gggcatactt tttttcccca 300
 aaaaaggacc tcaaaaatcc tggctttct 329

<210> 31066
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066a10d1
 <400> 31066

gatgaaaaac ccaacaaaat aacgatattt taactcaaga agtgccacta attaaagtta 60
 ttataaaacc agcttattag agaactatac atataaaata ctatataact ctaaaattga 120
 ttctaattct atagtgatct tcaccctata aatacaatac agagagtagg taggttttga 180
 attactttat tgatatatta acaaatactt atcaagaaaa ctccctgctt tcaacatcta 240
 gacatattaa tctaaccata gcatcgaatt ggatcattgc atcccttaga agcagattgc 300
 ttggaaccaa atctccctcc tttctcaagg tactgttgat ggtattcttc tgcctgtag 360
 aacttcttgg caggaaggat ctcaagtaaca atcttcctgt tcagcttctt ctgttgttgt 420
 tccagagact ctat 434

<210> 31067
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066b01d1
 <400> 31067

aataatatca aatttattat caatttgtgt atgcctacac aagtctatta ttaatattag 60
 acaaacatga catgattact aagacaagaa ctttgccaca ccaacctagt agcacgcagt 120
 actatacaaa catttgaaaa ccaacaaact ttaacgtcag aacaacttga ggcaacgcag 180
 caggcgcaag gaagattagg gcggtttttt ctttactcat gatgagttac ctccctctga 240
 acggagaagg gaatcaatcc tctgcaacct caactgttct ttgaacctgt tgatgaaatc 300
 gtcagctttg gcgtctactt cttcgtcttc tctccaagac gtcgtcgttt caaccggcct 360
 cgccgtctgc ggccctccgt tctcgacctc ctccactcg ctatccgtca aacccctct 420

cacgctc

427

<210> 31068
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066b02d1

<400> 31068

gttgtagaaa agcaatattt taatgttaag aactgattct tacattagaa ctgatcttac 60
actggctaca agcggtttctt accaccaagg aatagctatg ctctaaatcc aatctaaaat 120
atggtcagta cccacatcga gaatgtttct tcggagatag ggaaagggca aatacatagt 180
ttcgattgga ccagttctac ttatccatcg aaagcgatcc ttgtgatttt gtagaataca 240
ttcatctacc taaacagaaa caaaagtgtg gataaaaccg attctcaaag aatttcaaac 300
taatagtaca taccttttat ttattcaaat taaaggaaga tcaattattt tgttcaatgt 360
agcgcttggc tccatccaaa gtattcttca gcaacattgt gactgtcatt ggacctacac 420
caccaggaac tggagtaatc caaccagcaa ctttagatgc ttccccaaaa tctacatctc 480
caacaagcct tgtacctgac ttctttgttg ggcatcaac agcatttgtg ccaacatcta 540
tcactgcagc t 551

<210> 31069
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066b03d1

<400> 31069

ccggcaaaact gcatttcatt aactacacat aaaatagcat tagtcatggt tgaaggaaga 60
taccttgtag atcattttctt ttctattgt cagaatttta cagggtgtcag aatacccaca 120
gccacaggtc attctaacct aagtgcctag ttagacaaac aacaactgca ggacctagaa 180
acacatcgcc actcccaaac aaactaatag ttgtctctat tacatcatct tcattctctg 240
ctaatagctt atcaacaaga actaagaaca caaatcttat cagtcaagtt acagaacctt 300
atcaacatgt ggtcaagatc agttccaact atactggaat taacaccatg caatctgtca 360

catagaatgc tgtcagcatc atgaactcct aaaaatatga tgacggccca gaacttcagg 420
 tatccccaat gccgaaatgc tttcacagcc aaagatctcc tgaagcttcc catcacacac 480
 tatagccata ggattcgcag gatcctctag ctgggtgact ttaatgtact ccc 533

<210> 31070
 <211> 258
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b04d1

<400> 31070

tcgccttttt tttttttttt tttttttttt tttttttggg aacgaaaaaa agggatatca 60
 caaaatatat gggtatttac atgggtccac ccgaaataca ttttcagaga agaaaaaacg 120
 aataaacata taatcaacca attcaatttt cagaacagtc tacacaagaa acagaagctg 180
 ccaccatttc attaatcatg ggctaaagca aatcccaatc ttcccaactt catgtagcag 240
 gtgtttcaaa aaacaaca 258

<210> 31071
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b05d1

<400> 31071

gctaaaaagt gccaaatcgc atgttgctag cattttctaaa aaatacaatg ccacaccatt 60
 tctacagttt tcgtgtgaaa taacaccact tgaaaaaaa aaaaaaggag tattacaatt 120
 tcagcatata gttatctat ttaaaattac aactaccatc ccacaagggg atatcactcc 180
 cagtaaaactt tacataaatt gaagcttggt tagctccata caaaaatcca atttggtga 240
 aactcaggat atgaatgggt gtgccattaa aatgtaggtt aaggattcct caatgtgaga 300
 atcgtttacc taccocgcac gctggccgaa gattgaccac ttcttacgct gacaatatca 360
 tcatctattt cactattatc taaacaaaga cccttttgggt ttacactcac ttcagaacta 420
 gcattactgc ttg 433

<210> 31072

<211> 530
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066b06d1

 <400> 31072

ctagttctgt ccgagtatca gatcagagta ttgtacaatg aggagatttt atggtactaa 60
 acaaggtaca ctacttttgt accttgtttc aaatgggtga gtggtgtagt gaacaaatta 120
 aatgaattga aagcaaaaat cgaggtggga aagagatgat gttggagaca aatatagaac 180
 acgcccttac cctatccctt ctaagcttta agacaatgat catcattcta gcaaaagacg 240
 ctgtggttga aataacccaa agccagaaag gtgatagaaa atatcagaga attcttctct 300
 gtacttggga ccaaattatc ggtactattc atttagctta cagttttgaa gatagggatg 360
 attgtacttg acatacttgg tccagtaaga ccgatacttt gtcattggcaa tttctaacca 420
 tggcttcata ttaccattgt agtgtacaac tgctgcattc tcaatctctg atcgatccaa 480
 acttttatta taacccaaac caagtacatg ccatgattta tctagtggat 530

<210> 31073
 <211> 352
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400066b07d1

 <400> 31073

gggagcaaac ccccttttaa gcatttatga gtagaaaata ttggcccca tatgttttga 60
 aacattgggg ggagtacatt tcacaactgg gtaacaaat taaaccatac tggatcccta 120
 aacaactggg gggggggaac aaattcccat aacaaaaaaa aaaggggaat tcttcaacat 180
 gtaaggggaa aaaattaatg gagaaataaa cttttaattg acttgacaaa actttggggg 240
 tagctagctt ctttcatctg gtttttgggg aatgggtcaa gaagctaagg gaagtccttg 300
 ggaagggtt gaatgatact gggggggacg aggggtggga ataacctctc tt 352

<210> 31074
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b08d1

<400> 31074

cgagggacaa agaacaaggc aaatactgct attcaccaat attcctaatt ttgtacaaat 60
gttttttctt ttaaaatcaa atacatagaa aataatggaa gttttaacaa cggcttaacc 120
gataagagga acaaatcatg acgaacaatc ttgatatgaa agcaatgtga aaagcttggt 180
tttaaagtcc actgagacac atgaactttt aaaccccaaa aactttcgtt ctctttaagt 240
cgagcagcaa ccagcctttt ggttcaactgg cttgcctcga aattgaactg gtggaggcct 300
cgcattgttc actggctggc ttgccattct gtttttaatt tcagcagcca tggccatgaa 360
agcctgttca acattggtgg catttttagc actag 395

<210> 31075

<211> 396

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066b09d1

<400> 31075

aagatacaac tttttcatct tttattcttc gcaccagaac atattacact caatcaaatt 60
gagattaagg attgaaacta gcaccaagta attaaagtaa aacgacaaag gatattctagc 120
cttacaattt acaaggcata gtttccttga caatcaaggg aaggaggagg gcacacacaa 180
acaacctctc atcctaaacc catctataaa aacattcaca gcacatgcaa cacgggaaaa 240
ttatctacaa aaggatttag atttcaaaaa acacaatcct tcttattctt ctagcaattt 300
gctagtagtt tgcttaatca aagcttgatg agcgactcca ccggcctctc aagtagttct 360
ccaacgagac gttttgctca acgctgcaca tggaga 396

<210> 31076

<211> 316

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066b10d1

<400> 31076

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tttcaccagg gggggggggg aaagcaaac cctccccca aaaattcaaa attcttaaaa 120
 ataaaaaaaa gggaaaccag ggttgaactt taaaaaaaaat ttatcccccc cagcttgggt 180
 tcccccaag caactttatt tagggggcct ttttttattt tagggcccta ttaccggggt 240
 ttctaagggt cggacaaaat tgggggtggt cattatggga aattttatgc ctttgctagc 300
 tcaaaaccaa aaactg 316

<210> 31077
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066b11d1

<400> 31077
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 atgttacata agcaaatggt ccataattac atttataaat gtgttaaccc acaaaaggga 120
 ttatctattg aatataacta ttacattat tattctttga ttctcacctg aattacatga 180
 tacaacatct cagcaccagc cccttttgat caatcctgcc atcttcattg ccttcagggt 240
 gctgagctag cttccgattt tgtggagaca tcattttctt cttcaattgc atcaaaatgt 300
 cttccattgt acactctctt tgccaattag caagcatagg aaacaaatgt ggctcaacca 360
 ctccagtttt ttggttgaca caagtcatgt taatcctagt ctgaaatcta acagctgggt 420
 gattgtctgg ataat 435

<210> 31078
 <211> 551
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066c01d1

<400> 31078
 ggaataaatt cctttgcatt gataactctt gaagctcagt gtacatcatt ggcttttttag 60
 gcctgccagg ccctagctag gggtttagcc actcatggcc attgagggct tacaactggg 120
 gatgaaataa agaataggct acaaaacaaa gaatataaag agggaagaaa actcaggctt 180
 gaagtactga gagtgatgct ctgagatggg atcatttttt cttgggactg tctctctatt 240

tatagtggct gaagtgggct tacggggcctt cgtagttgcg ctcagcgcca cacctcgcg 300
 ttagecggtt cagatcgcg gctggggcg ccatgcacgc tgggcctgtg cttctgttgg 360
 atcggggcgt gggcgctgt gcgctctgtt gateggggcg tgggcgccta gctggggctta 420
 gcgcgcgtaa cgggtggcagc ggtttctgcc acgctaagcg ccttcagtta gatgctcgct 480
 tagcgctga tgcgcgctga gcgcccctat tggataggcc tgcttcagaa tttctctctt 540
 ttttttcttt c 551

<210> 31079
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066c04d1

<400> 31079

aaattcaact ttagaatcaa gagttcccat tgtactatct tgattacaat tacagttaat 60
 tacaatttca tatacgaaat cacaaatccc aaattccttg aaacaagttt gctaaattaa 120
 aaacggaaaa tactagaaat gaacggaaaa ataattaaca agcactacta ctctattat 180
 attattatta ttacaggaaa ttggaagatt taagcacagg cacacgaagt atcaacgaca 240
 agggaatctt cgccctcggt cctgaagaag aagtaaccaa cagcaagacc cacgacgacg 300
 gccacaaaca cccaccggt gaaggacatc accgacaaca tcagcaagta cccgatcgcc 360
 gagctcagcc cgaacagaaa cgctccggct accttcacgc ccaccttggc gcgggtttccg 420
 gcaagcttcc gtcgcagaag cggggcctcg atctctgccg ggaagggatt tccggcgccg 480
 atgagcttga ggcggatgcg gcgat 505

<210> 31080
 <211> 409
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066c07d1

<400> 31080

aaaacaaaac gggcgggctt tattttttct tcattcaagg agaaaggatt cattgtccct 60
 ttaaggatct tgctgggctt ccgtacttgc taatttggct taacaaaaaa acgtggggaa 120

aaaaagggaa aaaaatgccc aattcctaaa atgaaaaaaaa aaagcccata aaaagggact 180
 aaattaaaaa aaaaaactga aacaaatgct tgaagcattc aattgaaaaa ggagcctttt 240
 tcataagtaa aaggggaaat tatacccatt aaggaaagag ggaaaagggg atataactgt 300
 gggtgaaaaat atctataggt tgtttgttgt aggtcaagat tgaaagatga tctgtgtata 360
 gaggaacca ttccaagtat caggtaatcc tggtaaagccc ccatgaatg 409

<210> 31081
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066c08d1

<400> 31081
 gcactctacg aaatggctcg tcggatgaac acaggcggtta catagcattc atacacgagt 60
 aatatgaaat tacatttata ggacaacaaa gactaatctg caaaagttag aagcagccta 120
 gacatccctt ccaatggcaa cagtcgttta cagcatttgg ttgataacca tacatatatc 180
 actgtcagtt ggggctaatt cttttaagac attccccata taattcatta cactgataaa 240
 attaaaatca ccaagagaaa ggaaaaccta gtcgagcacc attgttaacg aagcaaattc 300
 cataacttggg attggctcat tataatgttt acccacagat aaacgggtag aaaacagagg 360
 ataagcttgg accgaaaaga tacttgtatg tacaatgtaa gcttattcac atgaaacac 419

<210> 31082
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066c11d1

<400> 31082
 ggatatatca ttattcatac ataataattt caaggaagta tatacacact aaacttgtga 60
 aatcccaaga aaacatagct caggaaagaa ttttagttta aaacaatgag ttccagaatc 120
 acataatccc aagcaaaatt tacgggtttc taagagccgc caaacgcttc tcaagttcct 180
 caatgcccg gctgctatca ttttcagcat tctttgttgc gactctccct ttgggagctg 240
 ctgataactg tgaggcaaca tctacaccaa tttcatcgag cacctggttt gtcagctttt 300

cagtctcttc ttcagcttca tcattatcca aggcacatc tatggcatct gacatcattt 360
cagtagtcat atccatctgc gctgattgtt tctgga 396

<210> 31083
<211> 359
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066d01d1

<400> 31083

aaagccaaac aaaacgttcg ggctttatct tttcttcatt caaggggaaa gggttcattg 60
gccatttaag ggtcttgctg ggcttcccga cttgctaatt tggcttaaca aaaaaacgtg 120
aggaaaaaaa gggaaaaaaa tgccccattc ctaaaatgaa aaaaaaaagc ccataaaaag 180
tggcttaatt aaaaaaaaaa aaactgaaac aaatgcttga agccttcaat tgaaaaaggg 240
gcttttttct ttagtaaaaag gggaaattat accctttaag gaaagagggg aaaggggaata 300
aaagtgtgtg tgaaaatatc tatagggtgt ttgttggagg tcaaaattga aagatgatc 359

<210> 31084
<211> 373
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066d02d1

<400> 31084

caagacagag aagtaggtca atattattat tataataata taggaaagga gggtgacaaa 60
ttacagtaat ggcccatgcc acatttacag aaccagcacc caacaatccc atccgtttta 120
cgatacacat tcattattat tttccttat caccatattg gtagtgatta caatttctca 180
acagactcaa acctagaaga agaagaagaa atcctcatca aatctcagac tcagagacca 240
tggaatctcaa tactgcaata tatccgcaga agccataata ggggtggttca gatacccat 300
attcaacggg ttgaagaagc tattattatt aattgggtca acgaagggtc tcgatgttgc 360
tgctgctcca aaa 373

<210> 31085
<211> 291

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066d03d1

<400> 31085

aaaaggaaac cccattatg ggccccataa aaagatttac aatgttttcc aaaaaaatg 60
gccccaaaaa aaactgtttt aaaaaaatTT tttggggaaa acacccttaa aaacgggggt 120
cttaattacc ggccaaaggg ggggcccccc caaatccctt tttgaaaatg ttccaagcta 180
gccccccctt ggggggggtgc tgtttgacct attttgttcc caccaccac tggaggagg 240
ttctgggtgt gcacatttta aatggaaaaa atgccccca aaccattggt g 291

<210> 31086
<211> 329
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066d06d1

<400> 31086

aggggcaagg gaaattgctt tcttaatttt ttattattga agacaagcaa agggggctgg 60
tggttacaat tcaaaagcca gacaagcctc taaaaaccag ggcttgTTTT aaaagggaag 120
aaaaaaaata gccccaaagg ggtgccctgg taccacacca aaggccttgg atatgaggta 180
cctagcccta aaattggaca acataaccac cctgacaaga ccgggggaaa acaaggtaaa 240
ggctcttccc cacttttagg tatggggaaa agcgattgtg gttaacttaa aagaccgaag 300
actttaaaag acatgaactc tagcttttag 329

<210> 31087
<211> 480
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066d07d1

<400> 31087

gcatgtaata aaggtatcat agcatatagc atagcatagg tatttcatac attgttcttt 60
tgaggagcac atgcagcaat tcagtcttac tacatgattc tctttattta gaaaacaaag 120
ttttaccaat taaacaaact tatcagctag gctttgcacc ttagacaaac tgattaaggt 180

actcatccac agtgatgtat ttcacatcag gatatagagc tgaagcttcc actccaaaag 240
 aagactcaat ttcaaagtta gtatgatccc cctttacata agaagagtgg ttaattgaca 300
 ggatcacatt cacgggtggt gcggactctt caatttgctt caggagtgtt tcttctggaa 360
 catagattct ttcaagagtt ttaccaatct ttcctccca gagagtaaca agctcattaa 420
 acgacaaggt attagctggt ggtctaattg agagaatttc tgtcaagggt cttggatcat 480

<210> 31088
 <211> 270
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066d11d1

<400> 31088
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 tctattttcta tgtactgaag cattacaatg accaaccaat tggcaatttt cgtattctat 120
 aatataacta ttattggaac ccgaagataa acaacaata aggaaaaaga aaaaaaaaaat 180
 caacgaataa gtacatctaa tttatgttcg tgccaaaacc cgagtcacgg actcactgag 240
 tcttctctgg ctacaccttg ttcgggggggc 270

<210> 31089
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066e01d1

<400> 31089
 gaattacaga aacgcattat atcgttcatt catcccatag gccataacaa gaaagatcaa 60
 ccaagctctt ctagaaaaaa caaaaatatt agaagaagga accatatgag aacttagacg 120
 taggagacga gcccttgaga caataattaa ttaacagtga cttttccac cataccagct 180
 ccttggtgag gcgaacagaa gaaactgtag gttcccttag catccaaagt aacgctgtaa 240
 gtctcaccag gcgcattgag aagggtcttca tcgctcatgg agattttccc tgcattccag 300
 ccgctaggaa tctcgtcctc gtogaacaca acgttggtgg ggaaacctgc gttgttcttg 360
 aacacgatct tctccccaga ggccacggag aaattgttgg gaacgaaagc cagagacctg 420

tcatcaccac ccagcaacac

440

<210> 31090
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400066e02d1

<400> 31090

agtatcaaaa gtataaaaaa tagatagaga ttgcaatcga tgaaatgagc aaaatagttt 60
taattttctca ataacaaggt gttgcaaaat aataaaatat aactagcaga aaaaatccag 120
agagaaacaa aacattccaa cattgctgaa acataaagct ctaaatocta atttctaaac 180
tagaagagtg atgttccctt gcccttcttg tcaccaccaa tctcaaagtg cttgcacctc 240
ttaatagcgt gttgggagac atgcttgcaa ccctggcatt gcaacctcag aacaatcttc 300
ttggtgggtt tagccttctt gtggaagacg ggcttagttt gtccaccata accggattgt 360
ttgcgatcat aacggcggtt tccttgggca gcaatgctat ccttaccctt cttgtattgg 420
gtaaccttgt gcagcgtgtg cttcctgcac tccttactct ngcagnatgt cttctttgtt 480
ttcggaacgt tcaccatggg gacggcgctg gcgatcggaa t 521

<210> 31091
<211> 443
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066e04d1

<400> 31091

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gtactggatc tacaaggaag aaacaatgaa cctagagttt ggagcaatgg cactagggtg 180
gacgatgtgg tggttaagca cacagtccaa ctccttctga accctctcca tggcttcaga 240
aggcaaacaa accggtataa ccaacccttc ctctccttta gcattcttaa agggatatga 300
aaagctagca acaccaggta tggctccaac ccctcccttg gcgggtcctc cataaacagc 360

cttccccac ccaaactcaa tgtttccaaa cccagcacga gtcacatccg acacgagata 420
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<210> 31092
<211> 101
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400066e05a2

<400> .31092

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aaacaaaatt ttaataaaaa aaaaaaaccc cggcacagg g 101

<210> 31093
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066e06d1

<400> 31093

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catgtatgtg atcgaacatt ccaatagaca agcttctttg tgtcttcatt atagtagggt 180
tattgcttaa ccttgaggcc ggcttctatg cgttcaatga gctgatctgc agtcaatgct 240
ccctcaaagc gatcataagg ttctccatcc ttaaacaatga tgaaagtcgg caacgcctca 300
attctgtatt tgtcagcaat gctaggatac ttctcagtat caatcttcac cacctgtatc 360
ttatccttaa gccgagtgt tacttcattg agtatgggaa ccataaattg acaaggacca 420
caccagggtg catagaagtt aacccacaca ggtttctcag aattggcaag ccaatcgta 480
aacgag 486

<210> 31094
<211> 376
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066e09d1

0907

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<210>      31095
<211>      380
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmst02400066e10d1
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<210>      31096
<211>      489
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmst02400066e11d1
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12743

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ccatttccta taagcacttt cattagcagc aataataatt ctcttcactt gatttactca 300
ctgttcagta ctgcaaaatt ctacattgaa atgatgtttg gtccccagct aggactctat 360
tgtgattgca ttgcatgtac gtaacgttac ataggaatat atatttttct tcaagggaaa 420
attctacgcg taagggtagt aatgatatct gtgtacaagt caactttggc cttagtcacc 480
ctaatagagc 489

<210> 31097
<211> 453
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400066e12d1
<400> 31097

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ttcttttcat ccaccgatga cttcatgaat aaaacccaac tatacgatct aaaattcaaa 120
ccttttgcca cctgtctgta attaaaaact ataacttct tacatgtatc attaaacttc 180
tgttaatgcc accaatccca attgttaaga ggaaattctt cccatgtctc ttcttcagcg 240
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aagaactgta ttatgtatca aaagaaagct gctaccattg gcctggatct gtttgaactc 360
tatatttctt gtatgtgtct gaaactatga atgtttacat cccactatct atctagtgga 420
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<210> 31098
<211> 377
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400066f01d1
<400> 31098

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ttaatacaaa tggacttcga accatatatt ggccgttact cccaggaata aaaccaaaaca 120

gatcttcctt caaaagaggt ccaagttggg gaaaaaataa cttggtagcc aagtttttta 180
ctactctttg taaactgaag tttatttggg gtcactggga cttttactcc actgggagct 240
tccacaacgg gagagtacgc tggttcatct tcttcaccaa cgtttgtgac agttctactc 300
acgttaccgg tgctttggcg gggaagtta ctgctatgga agggtagttg atttggggat 360
tagaacacaa cttgaat 377

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<211> 456
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400066f02d1

<400> 31099
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aagagaaacg aagacgttta aaatggaaat gggaataata tcatagagat taatgttcaa 180
aaatttttaa agagagggga aaaaaaggga aggaaaaaat aaaaataaaa ataaaaatac 240
tagttgttat aaatcccaac acaatggtaa tgttgaagaa gcctattggc ttccctaaga 300
ccactgaagt aagctccatg agttgtggaa taatgagttc tgtgagttgc ttcccctgca 360
aacaaaattt gaagtggaga tgaagctgca ggaggttgac aactgttatc ttttggcaat 420
ggctctgcca ttgtatctaa atcatcacca cttgat 456

<210> 31100
<211> 489
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmst02400066f03d1

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aagaagcagc aactccagaa aacttttcta gttcaaatcg ccaataacat ctatttggtg 180

aatgaaagta atcacaacta cttaagcagg caccaaagcc caaccttcac ccattatgtg 240
 caggcacaac gagagacata ttgtgacaac aacagaggat ttggctgcaa catatctcac 300
 aatctcaagt actgcctcat gaacaatatg agcacatttt ttcacagaag cacaaaatgt 360
 ctgcaaaaca aactccatga aagacctaac agtccttaaat gtcaccctgc cggtcacatc 420
 aagaacaagc ctccatttgc ttggaaccgn caacgaagac gaaaccttgc tcacccaggc 480
 acttttttt 489

<210> 31101
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f04d1

<400> 31101
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 tcagggacaa tgcaagaaaa aaaataatat gtgaaattta aatgttctct cccaaattga 180
 tcacttttac ttgctgctgc tagtttcctt gctagtttcc ttgacgatag tcacagggca 240
 agaggcatgg gtcacacaaa agttgcttac acttccaat ataatccttt ggattgtgct 300
 gaggccccctg ctccccataa ccagcgaatc cagcttcaaa tcttcaatag catccaaaag 360
 tttctctctt gcatcccccc agtatatttt tgtaacaatg tggatctctt tttgtcttga 420
 agcagtgtca agcaaatcaa gaacctcaat atcaatttga acatcatact ttttcataat 480
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<210> 31102
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400066f06d1

<400> 31102
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cttgtggcaa ttcccagtca aaggaataaa gaagattagc aagtataaga tccaatgcag 180
 caaatgccat attcatacca gggcacaatc tacgaccagc accgaatgga ataaactcaa 240
 aatcttgtcc ataaagatct atgtcgcaat ttaaaaacct ctcaggtata aactcttctg 300
 gatctttcca agccttagga tctctatgaa ttgcccgaagc attcacatat aataatgtct 360
 tggctggaat ttcgtagcca tctaacatgc atnttttatt tggttctctt ggtataagta 420
 gggggtgctg gtaagtgcaa tcaaagtgtc tcttttatca ct 462

<210> 31103
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f07d1

<400> 31103

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 agtaattaaa aaacaacaaa acggttctga tctcttgtaa taagtatcaa acacagaaag 180
 ccgatgatgg agtcaaaaact gagccgagcc acgagttcct caagccgaac attcaagccc 240
 cagctccatc ttgcacgagc cactctcagc cgagccacta aaatTTTTTca actcaatcct 300
 tcttttcttc accggaacca cgggcccgcgc acgtgaaacc ggttcgaacc caagcgtaag 360
 ctctaaacca acatcatcgc tcacacgctt cgggttc 397

<210> 31104
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f08d1

<400> 31104

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 caacagaata tacagtatta cttgactgcc tgaaactgaa agtataaatc gatagagtaa 120
 gtccttgaac tggctctcca aagatTTTtg tcaacaaatc aatccacag agatacaaat 180
 caaatactaa attatTTTgt gttaccactt ctttagtcct ctatgtgaac aaatgtggga 240

acattttaga tatttgtggg actaatttga taacaaaaat cttaaaaaca ttaatgaggt 300
 gatgccataa tctttggaag atcaattttg cagttttattc taaaacaaaa tcacaaaaca 360
 cactgcacag aaatacaggt atacaaccac aggcgctata gcttcaaaca tactcccata 420
 caaaccaa at acaagatcta ggtggagtag aggctactga t 461

<210> 31105
 <211> 467
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f11d1

<400> 31105

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 aacaatcact gtctggaaaa ccggacttat ttctgcaagg acataataaa gacacttaag 180
 aaaactactc ttcttcatct tctcttttcc agcacttcag agttgatcta ggtgaaccac 240
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 ggctcctctc ttgcgcacag tatcccttaa catccagaaa acacgtctga tcaaacaact 360
 tgcttgcacc atccacatga actgcaacag agaactcagt tgggagaaaa catgccaata 420
 cctcttaac catttcgttc agattcacca ctttgaagtc ataccca 467

<210> 31106
 <211> 548
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066f12d1

<400> 31106

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 cctcctaa at tccaaggca caaacacaga aaaacacatt ttatatagat agaaaatggg 180
 gaagatctct gtcaataggt ttaaggaaga ggccatgatg atataaagtt tttctccatt 240
 tgcaactctc aatatgttca ctttttgaga tgaggaaaac aagcataaac atcagattta 300

gggtgtttgg cttcagcatg ctccctacac ttcacttccg atgtggtgca cataaatgtt 360
 tgcattgcaca ccttgcactg gatcgacatt gctttcttgt ttgaatccag ctggcttccc 420
 tttgaggcgg cctttctgctt ctcgatgttc ttctcgcgag ccattctttgc cttttgccc 480
 ttgcctcctc ccattgtctga tgccgcatga tgaaaccctc gtgaccctaa ttctcttttc 540
 tcaagctc 548

<210> 31107
 <211> 433
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066g01d1

<400> 31107

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 tagtttaagg accaaaaaac aaaggggggt ggctacagat gctttgcaaa tttttcaatg 180
 acttaaaagc ctgggggctt gtaggcgatg aagctgatgc actgcacttg gcgaacgttg 240
 tcaaatccaa tgatacggat gaagccattg gggtatgcag tcttagcctt ttgaagctcc 300
 ttcaacacct gagaagcatt agtgcagcca aacataggca gcttccacat ggtccagtag 360
 cgtccatcat agtatccagg tgacctgttg tgctcacggt acacgaaacc gtgctccaac 420
 tcgaattcca agc 433

<210> 31108
 <211> 366
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066g03d1

<400> 31108

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 tgtttaaaaa ccaacaaatt ttcttttttg ctttgcccc ccccttttaa aaaagaaaag 180
 aaaagaaagg gaaagttttt tctttttgtt gcaaacttgt tcaaacgggt ccattttttg 240

actttaaaat ccccttggg ctccgaggaa aggtttttgg gggatggaga ttttccaggg 300
 aaggcttttt ttggtttcac tagggacggg ttaacccttg aaaagaagtc atttgattgc 360
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<210> 31109
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066g04d1

<400> 31109

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 gcaaaacgta aatagaaac atctaacgac caattcgtac acaaggtaca cgtacaataa 180
 caacagtgga agaagaaatt ggtacctata aaaatacact ggatcggatc gagtagagta 240
 tacataccac aagtgtcaat aacatattct ttattacact cattttaaca cattttttat 300
 gattagttaa aatttattaa aaactataaa atcacataaa aaaaataacc atgaattttc 360
 cagatttaat tttcaataaa ttttagtgac gaaatatttc atatgtaact tttgaaaaat 420
 tcatcactaa agtttttgta actctagaat tagtgacgaa aaggcaatac atcactaaat 480
 tccgtcacta ataaacata 499

<210> 31110
 <211> 449
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066g10d1

<400> 31110

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 atctacagat ggactgatag ccagatcatc ctagtattac aaaaatccag cagtgcacac 180
 ttacaaaatc aacttccttg tccctgggtg agcatgaaga actgtaacaa acaagtcctt 240
 agaggaatct tagttcccca actctatagt ttgcctgtg aatacaagaa ggttccaagg 300

atagcaatgg cggcaccaag agcattgatg ggttgaactg gtgtgtggaa gataataatg 360
 gaagacacaa tgacagatat acgtttcatg gtgtttccaa tgctaaacgt caaaggagag 420
 atctgatcca gagacatgta tgacacttg 449

<210> 31111
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066g12d1
 <400> 31111

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 aaaaaaaaaat atatatatat atatatatat atatatatat atatatatat atattataag 180
 gctatataag agaagcagca acccatcaac ctcataatat aataagcaag aaatagcggc 240
 attccacaaa atgtccctaa gccttgtag ctatattgtg ggagagccac tccagtcctt 300
 catatagtc tttcccagag gtagcacatg tgctctggat ataccagggg cgttggcgaa 360
 gagaatgaaa accaagcttg tctgtgattt ctgcagcatt catagcattt ggaagatctt 420
 gtttgttggc aaataccagg agaaca 446

<210> 31112
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400066h01d1
 <400> 31112

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 aacatttttg gtccctcggg gggttttttt tttttttttt taaaggctaa aaaggccaga 120
 gtttaaaaca tttcacactt cgggcattct gtttaagcaa ttttaaacct ttttggaaact 180
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 ccttggggtt tgagaacttg ggacaatttc tttggactga tttttccatc gcccttcaaa 360

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405

<210> 31113
<211> 286
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066h03d1

<400> 31113

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caaacacagg gcatatgaca attttggttaa taaaccctat aaggacacaa ggtgtacctt 120
ggccaggggc aaaagggccc ccacttggcc tcccatgaaa gctcagtgtg gggaaatttc 180
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tctgggcgaa gaagcttgta actgcagacc taattgccga attggg 286

<210> 31114
<211> 422
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066h04d1

<400> 31114

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tctgcaagta tataagaatc caaaaaactc catcccctac acagaagagg caacaaaaaa 180
agagcttaat gctcgtaaca gggtaacaac actgggtccg gaaaccgatt tattcact 240
tctcaatttt tgcacgagca agacactaaa tcgcagcttg accagcacat aatgttagaa 300
ccaccttaat taaaaagact tcttggaac gattacaagc aggtcaatga cacgtgaact 360
gtatccccac tcgttgatcat accaagagac aagcttcaca aaattcttat ttaatgcaat 420
tc 422

<210> 31115
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400066h05d1

<400> 31115

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atacaataac aatacataag ctaaggactt gagggaagca caactgcaca aacagcaaatt  180
ttttctatat gctagggtcat aacttagcaa tcaaaagctt ttggaaagaa aaatgtttcc  240
tttgtcaaac caccagaagg ctagcacaga aatcagtggg acaaacattg ctactgaaag  300
aaatgtcaag tttctccaat ttgcaggctt atctgctgaa atagatgatg ttactcgagt  360
tacggagctt gcaccttctt catccacctg cctgaaatgt cttattaaag tgatctattc  420
cttcttcattc tgatgattta gcagagttat cattgctcga gtcattgggtg gaagcttgat  480
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<210> 31116

<211> 254

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066h06d1

<400> 31116

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taaaaacaca catcattact atgtgttggc atacacgcat gaccttgtgc cttgtcatga  180
gtgaatattc caaagcaatt ggtcctttat gcctccttaa tccttatgcc acaaaatgct  240
atcatccctt gaaa                                                    254

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<210> 31117

<211> 280

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400066h07d1

<400> 31117

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 acagacaacc atcacaatcg caatcaaaac tcaagcagta tgtgataaac cctataatct 180
 ctctagaagt ggtgcaatat ttgttaccct ataatccctt cattctcttg tatactttct 240
 ctacaaagtt gtctcccttt acaacattag agtagcaaag 280

<210> 31118
 <211> 240
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066h08d1

<400> 31118

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 atgccccgc acacgaggga acttcagcgg ggttttttcg ctttcgcccc ccggacgaag 180
 taaccatctg gaagacctgg gacagactgt caccaacccc cgcccggtga atgtcccccc 240

<210> 31119
 <211> 445
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400066h11d1

<400> 31119

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 gattgatgat acattttcac aaacttttct actccttact tccagtgttt ttgtagtagt 180
 aatttttttag ccgggaaact gcacaaaatt gcaaaagatc actagaggca ctatgacatt 240
 taaaatgaca tgtccatggc atcatggtct ggggtcttgt gacaaaacc agattcctca 300
 cttggtcgtc ttttaaccac acttgctctt tgcactaacc gaaccaatgc ttgcaccacc 360
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 aagcgtgaca gtgactttgc aggat 445

<210> 31120
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a02d1

<400> 31120

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 aaacaaaagg ggactcgaac aacctattac agcttgacgt tgatatttta cactgctaca 180
 acagacaaat tatcacatta attagataac acgtggacca taattctcaa atatggcatt 240
 caagccaaag ggtgagttat ctctctggat ttcctatcca ttgctagaac caaagcaggg 300
 cttaaaaaat tgagtaaagt tacaagcaag caaactctga attttgaagg cacaacacaa 360
 tgaactattg ttacaacaat gcacccggga ctaactctag caacttgaag attgaacatt 420
 ggagatactt ttatatccaa tgaatgtcag atcttttctc aaaagaaaag aatcaagtaa 480
 gcccgtaga ataaaatcaa cccaatctgc aatgatttgc ataaatgtaa ttt 533

<210> 31121
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a04d1

<400> 31121

ccccccctct agtagtcagt ggtgggaagc tgctcgtggg tgtggctgat aaagacaacc 60
 tcgtaaaciaa ggccagcgat tccaccaccg atgagaggcc cggcccagta gatccagtgg 120
 ttggtccagg tccagctcac gacagcaggc ccaaattgtca cagcgggggtt catggccgct 180
 ccagagaagg cccaccccaa caaatgtta gcgccgacaa tgaaaccaat ggcgatggga 240
 gcaataattc ccaaattacc cttcttgggg tcaatggcag ttgcgtagac cgtgtacacc 300
 agaccgaagg tcatcacgat ctccaacacc aaggcgttgc caactccaac tccagcggag 360
 agtccgaatg ctggaacagt ggaggcgggtg acgaaggcca ggaggaggga ggcgacgatg 420
 gagccgagga gctgggcgat gacgtagacg atgccgcgga ggaaggtgat gttg 474

<210> 31122
 <211> 385
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a06d1

<400> 31122

aacagtgtat aatgcccattg ggccatgatt tattttattga gaaagaacaa cctatcttta 60
 tgagtatgaa tatgataggc attgtgactg ccattataac agcactgaca cgcatacata 120
 acataattaa caccatgaac atgcccttct acccaactct aagctacttg catagtgtta 180
 catatataat atccttattg aaattaaaaa aaaaacaacg gtaacatcgg aagattaaaa 240
 aacataggct cttaatcctc ccatcccat gaacctgcag tgggtgtcggg tcattgaacc 300
 accccattta aaggaaaaga ccctacttat tttttgcata atatattaca gatgctcttc 360
 ctcatcata gacaagggga ggaaa 385

<210> 31123
 <211> 357
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a07d1

<400> 31123

caatcatctg ttagtagta ataataattg ttccgccggg cagaaaagta acaaaacaat 60
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 gttaagttcc acaaatttac agacaggctg gaatttgttt cagctatctt acaatattac 180
 agtaacccat ctactatctt ctgaatcctt agcgggacta cactgtatca gcaataagca 240
 tgtccttata tatagttgag atgcttgcta actgttccac atagtttggg acaaatatga 300
 gactaatgac cacctcttgc gtttggactg tcaagaagta accgattgac acacggt 357

<210> 31124
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067a08d1

<400> 31124

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aagtgtgata accggacagc aactaatcct ccgacgctct gcaacgtcac agttccatag 180
tttgcaggcg ataatagctt cgattgatta ttatacatat ttctcatcta taccaccccg 240
tattgaaaat tatgaccacg acatgcttgt atgccactgc atcaatggga ataatgtctc 300
tgactatagt aaggaatfff tttctcttta cctttacaga ggttcaagag atccactfff 360
caatctttcc atccgtgctt gaagcccaga caatgctttc tcatccatag gaagtacccc 420
accgtgcatt gtattctcag taccacatg ctctgatgca tg 462

<210> 31125
<211> 431
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400067a09d1
<400> 31125

cccccaaaa atatggtttt caatccaaaa tggcagagag accaggtaat taaaaaatat 60
acttttgcta gctaaaagat acattccgtc cagggagAAC cagaaacaac tgtttaggct 120
atgccgtcaa aaaattaatt tgttctctca ctaactcatt taaccattca ttcaaaaaag 180
tccaactttg taaaaactga ccccatcag aatatcatga tctaccctcc aaagtgtctg 240
attgcaaattg ctctaattgg ccaatgatta acgcttcttc ttgcttccct ttgcgctgga 300
ttttgatggg gaagctccca agtatgtgaa caggaccttg atggagatca ccgagattag 360
agatccatac ttagccagca gcctgttagc ccattcaaac ttcttcttgg gaggtttatc 420
agaaagaaca t 431

<210> 31126
<211> 605
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmst02400067b02d1
<400> 31126

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 tatcccgtag acaagcagat accttataga aagaaatata ctgggtcactt ttcacgatt 120
 gagaatagat gaaaaaaatt aagtggcgtc tatctctccc atccttgata atatatgggtt 180
 tectccgcta tacgtggcac gtgctgtcca aatacaatgt aacaacaagt attgtctcct 240
 tcataattca catgttggtc atttattcca aaattaaaat cataattaag tagggaccaa 300
 acagaaagaa aagaaaagaa aagctatata tctagctaatt ttgaaagtaa gtttaagcat 360
 caacaatttc ctcagtgtct gcagaagcga aaataagctg ggggttcttcc cttgcaactg 420
 cacacgttcc atcaattgca ttgttctgc ccaacgcctg taacgccaaa tgagccgcct 480
 tctgcctga tatcatcatc gccccaaacg tgtgacccat ccttggggag ccatcaattt 540
 ctgccacctc catgccggtg acaatcatgn ccggcacaaat ctccctcgtg agcctcacia 600
 tagca 605

<210> 31127
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067b04d1
 <400> 31127

atataatatc cttattgaaa ttaaaaaaaaa caacagtaac atcggaagat taaaaaacat 60
 agcctcttaa tcttcccatc cccatgaacc tgcagtggtc tcggttcatt gaaccagccc 120
 atttaaagga aaagacctta attatTTTTT gcataatata ttacagattt tcttctcga 180
 tcatagacaa ggggaggaaa attcaagggt cctgatcatg gtgcttggtg gcaacattgc 240
 actgctttct gacctaccc tttgtgccag tgagagggtt gttctctgag agcaaggtaa 300
 tggctctaga gaactccttg aagaaatagt cttggctctt ggccattttc ttcacataag 360
 gcttggctct cttgtcattg gctagttggt gatccactat caagagaccc ttgctgtcta 420
 atatgtttct gtagtagttg gtgtctagaa tcatgggagt gccacggctg tttctcacgt 480
 actgcacc 488

<210> 31128
 <211> 311
 <212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmst02400067b06d1
 <400> 31128

ggcaaacaaa ttgcaatata atgatgtcaa taaataccaa tgttacatga tacaggaagg 60
 tgtaccatta tcttgaggta ctgatatctc aattagcaaa aactaactgt aaacatttga 120
 aagcagattt gagacgtcac atatcacttg actaaaccca gctgggctta tgactcaatt 180
 tttcaaacag aacatccatg aagcattact gtttactttc atatatggca aggctccaat 240
 taccttggtta taatcagtcc tgctgaccgc gtgcattatg gagagtcggg atttgcgctt 300
 ggtattcttc t 311

<210> 31129
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067b07d1
 <400> 31129

ccaactcata atttatgggt gtataagggt atgctttgta tgtttccact ggtccatccc 60
 acaagacatc tatctgggta aaaagaaaag aactacattc tatctactca tactactggc 120
 cgagaaagaa catactttac catcagggga aggagagctc aaatcgcaaa ttcttgtgat 180
 ttgccagcca aaacacagta tgaagcatcg actgcacccc ctctttctat tagaagatcc 240
 acaaaaaagg ggagaaagaa tatcagggac ggaagaagggt gtatacattg acaaaaaaaa 300
 aagaacggcc gaccatggat agtatacatt ccacatgagg tatgcccacc ccaaactttt 360
 tggaacaggc actagaagag cttattttac 390

<210> 31130
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067b10d1
 <400> 31130

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agagagaact tagatgaagt tgcataccct tacaattctc ccaatcctca tacgtgaata 120
 caagagcaac gcatttccttt ccttcccaga agattaagtt gggaaggcaa ggacattgcc 180
 aaaatagata tctttatata tatcacacca ccatttgctt caacttttaa tagtgagtgg 240
 ggaaaggaag gcctagctta tagtgaacca ccataaatat tccaagcatg ttcttgattt 300
 atccactctt taggctaggc tgcgcaaaaa tgactccttg agctgattaa tatgaaggta 360
 aagccctatg tgtttcatca caatgcaagg gtaaaaatac acaaggtttt atctcctcct 420
 ttttctgcct tttcctaatt ggcctgattt aaaggcatgt tcttgctctt gaaggaaagc 480
 ttttaactctt ccatac 496

<210> 31131
 <211> 344
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067b11d1
 <400> 31131

aaaattaaag ggtttaactt tactaccaa aaaagggtcaa tacataaaaa ccccaaagt 60
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 ttttgaaaca aactggggcg gttgggggtt agccaaaaaa aaatattttc catcatcaaa 180
 agaaaattgg gcctgaacat taatgggtgt ataccaagg tattgagggg ggcccgtttt 240
 tcctgaaaca cacgggtatg agaaaccctt tggaaggaaac cggccccctt cgggggtttg 300
 gaagggttta aacaaggggg gtttttgggg gggcctaatt ccct 344

<210> 31132
 <211> 295
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067c01d1
 <400> 31132

gggtcaaacc cgataatgtg aatctatttg atttaagcca ggggaaacc ggagaaggcc 60
 ctacgggtat ggacccttc gggggccaca tttttaaaaa tttcctttta aatcccatgg 120
 taatctggga ccccccccta ggcatgcggt ttgtcttcag ggctccaaat aagcagggcc 180

tatttactta gtgtccgcag aagccaaaat cagctgggggt tctgcccttc caactcccaa 240
cggtcaccaa ttgcattggt gcctcccata gccttaaacg ccagatgggc cgcct 295

<210> 31133
<211> 586
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067c02d1

<400> 31133

gagccaattc cctgcctctg ggagtgtctt cttcagaatt gagacaatgt cacttgtatt 60
gcatacacgt atagccatat gccaaataca caaggaggct gattagtgtc actagttata 120
atacaaaaac ctaatataag tgcaaagtcg gtgtggaatt caacttttat gattgggtgag 180
aatgaatta aataaaaggt acatgagaag cacagaaact gagaatcgtg ttcagaagat 240
ttgcccatta caattatatg cagcaaatat acagcaggac ttaccgggtca tgttgtacct 300
caaaacatag agggaagacc taagattctg ttgttttagca tacacgcaca aaggatttca 360
aaggtgtaac actgccacag atttgggtcaa gcacgaagaa acgtgcagct catgagtaac 420
atgatccctt gaaatatggt tccagtttgc catatcagac acatcacaaa cggtgaaaaa 480
accaatacc cggccaatta ttgtgaacat gtgcacccca aaaatcaggc ttttgtctga 540
cacaaaaaca gcgttccagt ccattggggc atccggatgc actgag 586

<210> 31134
<211> 452
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067c04d1

<400> 31134

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ataagaacaa accgataggt gccgcataac atgtacccaa aggtcccaaa ctccactctc 120
actaccatca aagtattatc ccgcaaaccg tacatacact attagtaatt acaatcttct 180
tcacgttggg gtgcagagca aacacactta cgcacacat agcataagta agacacaggc 240
atcttcacat tttagtctct tcacatatgg tcgtctgctt caccatctct ttctctctga 300

tgctcgtact ccccttcgtc ctcagcagtg gcgtcctggt actgctggta ctcagacaca 360
 aggtcattca tgttgctctc tgctccgtg aactccatct tgtgcatgcc ttcaccagtg 420
 taccaatgca agaaagcctt gcttctaaac at 452

<210> 31135
 <211> 195
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067c08d1

<400> 31135

atgaaaaaaaa aaaagctatt ttttttttta agaaaaaaaa tttcttctca caaccccggtg 60
 ggcttggtggg ggtaaaaaaaaa cccgtgtggt attgtaaaaa aaaaaccccc tgggaaaaaaaa 120
 aaaattttta tcaaaagaat gtgggaaccc cactgtttg ggggccaaat tgaacaaaca 180
 taagaacggg atcta 195

<210> 31136
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067c10d1

<400> 31136

cattatgaac tgataaagga aacactttta ttaagacttc aaatcacagc attcaagata 60
 atacaatacg caacactttt tagaaagcct tataactata aactataaaa gctttgcccc 120
 gatgaaatta cactgcaggc aaatttttca ttcaccttta gcttagttat cttcattggc 180
 gcccaaatta ttctttggca catctttgta ttagccctgg atggcaacac caaggggagc 240
 agcatccata ggtattatct tctcaatttc tacacccttg ttgttctggt tttcataggc 300
 tgaaatgtgc actccaagtg ctgctctacc agagggatca aggttggttag accaagcagc 360
 atcccactca acagcttttg ctgtgctaca tgcaaacactt gctcctccag gaacagttag 420
 cctagct 427

<210> 31137
 <211> 477
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067c11d1

<400> 31137

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 ggtttcatct gctatagggtg agtccaaatt caaagaagta acaacaggta ttgtctcctt 120
 catcattcac atttttaaaa atttattcta aaattcaaat cataagcaga gacaaaacag 180
 aaaagaaaag gtatataatt tgaaacttaa tttaagcatc aacaatttcc tcagtgtccg 240
 cagaagccaa aataagctgg ggttcttccc ttccaactcc acacgttcca tcaattgcat 300
 tgttcttacc caaagccttc aacgccaaat gagccgcctt ctgccctgat atcatcatcg 360
 ccccaaacgt cggacccatt ctgggggagc catcaatttc tgcaacctcc atgccagtga 420
 caatcatgcc aggcacaatc tccctagtga gcctgacaat agcgtcctca gcagcat 477

<210> 31138

<211> 511

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067d01d1

<400> 31138

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 gatcagaata tcttctagca cagaagttaa aatttaacat gacattttac ctgtttcagc 120
 aattcttaaa gactacatag ataaagtga acatacaaca gcttaagggt taagacttaa 180
 gactaaatat taaacaaagg gatatgtagc ttcttagtca tcagttcacc atcatctgtg 240
 ctaactagtg gagatatgta gcttggtact gatagccatt tccaaagtag ttgccaggat 300
 taggagagat gttataagtt gcacaacca tgagaggagg gcagtgattg tcagttggtg 360
 cagggtacat gtaaggctcg tcatacacgt attgaggata cctgtcagca actctagcat 420
 aagaagtttt gtcagataga atgttagtga cacgcggggc atatcccaca ccattagcac 480
 ggggtctctt gggttgaggc tttgttgctt c 511

<210> 31139

<211> 489

<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400067d03d1

<400> 31139

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 tacattgaat catgttgaaa agaaagcctt ggtgacttcc ctgatgatcc agtcgcaagg 120
 ccacatattt atctacataa ttgggtcgct gcaaaagact aagagtctct ataacaatct 180
 caaagcacta acctactact atatcagaaa gtgacagagc accgataaat attaacataa 240
 tactaaggga agtggatatt acatacacta tctttgttag catagacaat ctcatattatc 300
 aaaatatcat ttcttctgat ttgcacacag tcttaagcct ctgtgcagct tggacgaata 360
 ccacaatgac ctgcaatact gccatgtgct gcgacatgaa atgcctacga acaacatcta 420
 ctanctgctc ttttgatggg ttcgggaccg catccactag attaaaatgt cgccaatatc 480
 tccacaatg 489

<210> 31140
 <211> 571
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067d04d1

<400> 31140

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 agggaagata cacaaagggg aagaaaaatg atgtattcta caacagaaca aattgaaatt 120
 aaaaaaatta aagctccgca gcacttatcc tggatcagca gactagtctg acgaataacg 180
 tgaggaaagg tggggatatcc gagtatcact tgaaagtgga gaatctcgga agcttgtctc 240
 tcagatagta caatcttgcc ctctgacct tacggtgact taccactttg atttctttga 300
 tgtttggtga gtaaactggg aagactatct caaccccagt gccggcaatg attcttcgga 360
 ttcgaatagt cgtgtgaata ccagcatttt gttttgagat gacaatccct ttataaatgg 420
 acaacctacg cttgtttctca ggaacctcca atttgatttc gacaatatcc ccagtcctaa 480
 tgtctggagt tgggtctttgc ttctcgatg ccttaattgc cctctgattc aatatcccca 540
 taatgtctcc gaagttgact tcgggttttt t 571

<210> 31141
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067d07d1

<400> 31141

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 ttatitttcaa gggacattat tacagacca ttaaacaatca aagttcttca aatgttttgg 120
 gaacacatcc aacattacac aacgagctta aaacccccca cggagacgga ggacaagggtg 180
 aagggttgat tccttctgga tgttgtagtc agcgagggtc cttccatcct cgagctgctt 240
 gccagcaaaa atcagcctct gctgggtcgg tgggatgcct tccttgtcct gaatcttggc 300
 cttcacattg tcaatggtgt cagagctctc cacctcgagg gtaatagtct taccgtaag 360
 agtcttcacg aaaatctgca taccaccacg aagacgcaac accaagtgga gagttgactc 420
 cttctggatg ttgtagtcag c 441

<210> 31142
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067d10d1

<400> 31142

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 aaaagctaga attggcatgt aatgttgatt cttcctgtca tcacttggtt acctaacttc 120
 atccaatttt aacaaccaca agacttacag aaaaatgtta gtaaaacgtg ttctttattt 180
 tagaacaatc atatattgtg caccagctga cctatatggg tgtgccttgc caaaaagaaa 240
 ggaaaaaatt cctaagcata cactaccagc caacataaaa agcagatccc aagatagaat 300
 ctgctatctg catcatttta gtaaaggagc cggatcttgg tacatctagg gatctaaact 360
 cttttgccac ttaacaggat gcagctttgt attaaccctc tttttcacta cccc 414

<210> 31143
 <211> 497

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e01d1

<400> 31143

aagccactgc tggcatgtcc ttgagccatg aatctagagg tttgccaatg gagtaaacia 60
 tgaaaccaat ttccctcagc ttgttaacat ccaagacgtt ggggccatcg aaaatgaatg 120
 caggcttctg catgctgtca taaaccttct ggtaatcaag gttcttgaac tcatcccact 180
 cagtcataac gcagatgcc a tgtgcatcct tgattgctc ataggcatcc caaaccacag 240
 atacttgttt gttggaagtt ggactcagtg gttgaagatg agcaggggtgg tcccaatcaa 300
 acttcttcat tgctaaatcc ctcatgattt gatcctcagt gacctgagga tcatatatgc 360
 tcaacttggc cttgtctccc aaaaggccct tgcaacatc aatggctggg gtctccctag 420
 tgtcaccagt gtccttcttg aaagcaaata ccaaacagc aatgttcaac acaagtctca 480
 gggaagaaga ttgatga 497

<210> 31144
 <211> 572
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e02d1

<400> 31144

gaaagaaagg cagcacgtat tatttcaatt gttaaataag aaaaaaata tgatatcaat 60
 caggctaaca aaattaaaca tgaaatcaaa gacaaagaaa cttcaaactt ttgaattgaa 120
 acaccatggc gataaacctt atcactccca ggaaaggaag acacatattt cttttttctc 180
 catttctgca ctttgtgtcg aacttgagtg acacaattta gtagaaagtg gtatgggtga 240
 acctaatect tgtacttcat ttcagatacc aggaagccag gcatgtcaaa caaggcagag 300
 aacttctcaa catcagcttt gagatcttca atagccttgt tgttgacgag acccttggtg 360
 aaatccttga gaagtttgcc atgctccttc tggatctcca gtgtgagagt cacagcacgg 420
 tgaaggaact caccaatctg ctcaaagtct ttttcaacca aaccctaga agtcatggca 480
 ggggcaccaa ttcgcactcc accagggggc aaggcactgc tatcacaaa aacagcgctc 540
 ttgttaacag taatgttaca gagatcacag ag 572

<210> 31145
 <211> 384
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e03d1

<400> 31145

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 aattaaatct ccaataaatt catgcacaca cagattcata tatacataca taatcaatta 120
 ctcatcaatt ttctcatgac catatgtgca gggagtgata gatatacgaa gacactgcat 180
 aggtctctac acatttatcg catgtatggc ctgtgcgtct ctctccacac gtcctgtgat 240
 gttaaactact agaacgagag gatcaaaatc cataggggat tatttttcat gacatatcat 300
 gattgaatga catagactaa cacacttgcg cagaggatgc cactggtata aagagtgata 360
 accgaattgt gctctgcaaa tcag 384

<210> 31146
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067e04d1

<400> 31146

attaacacga acttgagtca tacttatata taaatataat acacaataac attgatgaaa 60
 actacccaaa cataaaattg gctgctcttt ctagcaaaac atagattcct ctttttcgag 120
 ccatcaaatc ctcatagat caaacaatac aaaatacaac acgacgtaaa aattaaataa 180
 atatcaagcc acgataatac ctcaataaaa aaagcccagt atgaaaagga catgctgtgg 240
 ggaagcaaag agaaatgtga tgcacatcaa agccccaga agataacaat gcaactgtga 300
 atctgcgctg gccagtgtgt caacgatagt acataagctg ctgtctcgat gaattaccgg 360
 tatatccatc atacatggct tgagatgcc cagagtttac gcccatcgaa gctggagcta 420
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<210> 31147
 <211> 408

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067e05d1

<400> 31147

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gggccatttt ttttttggct tattataaac tcaccctttt ttaccacatg atctaaagtt 180
taaacagaaa aacttgagag tagaaggag agacatgctt tatatgctat aaaaaaaatt 240
cagtagggcc aaaaccaaag gggttgatct tcctccgaa ttccaaaatg gcatgaacca 300
tggggggggg gggaggaata aacattttca agcttgggaa aaatgtaatg aggcaaaagg 360
gtcttgctca agttattttt ttcacacctga gacacataaa atcgatca 408

<210> 31148
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067e06d1

<400> 31148

actagaatgc aacgatcgat acactaataa tagtgccata caaaataact gtcctcgaat 60
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agtaattaat aaactcccat gatcacatcc acaaaataat aatatataaa ggtaaggtaa 180
atagaaaaat aacatgaatt ggcagaaaaa tctgcaagtc cgaagacaga gatcgatgat 240
gtctagaaca acaaggacag caaagcacat ccgaatacta agctcccaat catcttctga 300
aaggaccaca acttttcagc cccactatca tcgccagagg gagagatggg ggagaggctg 360
gggccgggag ccaaggaagg agagagtgc ggagcaacca ccttggcagg agctggagct 420
ggagaagtgg ctggtggaga ggaaaggggt gattgggtca atgcgggtgg a 471

<210> 31149
<211> 511
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067e07d1

<400> 31149

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aaaagggggg ggggccccct tgggttttaa aaaaaaaaa ccccccttt ttttcccccc   180
aaattttgaa acccccccc cgggggtaaa ttttaaaata caaaatttt ttttttttcc   240
cccggggggg gggaaaacc ccccaaaagg ttgttttaaa aaaagtggac cccgtcccc   300
ggtggggggg ggtcccaaaa aaacaaaaa aaaaaggggg gggggccaaa ccgaaaaaa   360
taatcccccg ccccccccc caaaaaaaaa aatttttttg gggggggggc cccccctg   420
ggggggtggg aaagaaaaa accccggggg cccccccct tctttaaaaa aaaagggggg   480
ttccctgtgt ataaagggcc ccccccggg g                                     511

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<210> 31150

<211> 393

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067e08d1

<400> 31150

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tttaaccaac cttgagtta atttggtttt aaaaaaaaa aaaaaaagt ttttgaaaat   180
tccctttttt gaaattcaa aaaatttttc ccaatgattt ttatgatcat ccccagggg   240
ctatccccct gtatcttggc cttgttctgc caacctcagg ggaaaggccc tgtcccatgg   300
ccctcccttt gttattgggg ggggcttgtt gaaaaattgg tcgctgttgc ccaatagggg   360
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<210> 31151

<211> 363

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400067e10d1

<400> 31151

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 atcatggggg gaagtctaaa atgaccttgg ctttgccaca atgggggaat gcttgagtat 180
 gtgcaagcta aactgccctc cttttctcact ggtgtcaatc tgggactggc cagggggagg 240
 caagagctca aagttttgga ccaaactgcc caaagtgatg gcaagaatag gcaatgcaag 300
 aatgattccg gggcaactcc ttctgccaac cccaaaggga aggcacctaa agtcattgcc 360
 att 363

<210> 31152
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067e11d1
 <400> 31152

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 cctatcaaaa atatacaaca ccagttgggt caattttctat ttgtttcttg tccaaataag 180
 accgcagcag cggcggcaac agcagacaaa ctccaaaaga aagaattatg ttgatgaaaa 240
 ccgtccactt aaacagtga actctttctc tcttaaagac acatctacag taacagcata 300
 aagcagtagc tacaacaaaa gagatatatg aagttacaaa aaataatctg gcgtctttcg 360
 tgtagtgctg ggctcaattt gtctgggagc tggatcaaac tgcagaaaat tctgatccat 420
 gttctctcca atttccagaa tggcagacat gttccca 457

<210> 31153
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067e12d1
 <400> 31153

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aaaggaagga ttcaaagggg aagggtttcg aaatgatatc cataacaccg caatccccta 180
aacgacatgg gaaagagaaa aaaaaggcaa aaacgacacc gaaagaaacg acacattcag 240
agccaccgac acagagataa aagcctaggg tcaacgtcgt ctatctaaga gagttgacca 300
cagtcggcga cgacgacagg cttggcggtc ctgccggagc tggatccgac cttctctatc 360
tccttgacga cgtccatccc ctcgacgacc tgtgcgaaca cgacgtgctt tccgtcgagc 420
cactccgtct tcgtcgtgca gatgaagaac tgagatccgt tggttccggg accggcgctc 480
gccatggaga ggatgccg 498

<210> 31154
<211> 404
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067f01d1

<400> 31154

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tgaaccttct taggaattcc cgccccctca aatttcaatg ctaaaagggg gaataaataa 120
ttgaataaac cgccaataa ttttatttgt aatggcaaac tttggccgaa acaccctga 180
acggggaacc gtttcttttc cttgacctac aggggctaca caaactggaa caatttaaca 240
accggttttt ttttttttgg gacaattaac cccatgcggg tattttcctg cccaatttt 300
ggatttctac cccttgaag ccctaaaagg cttcgggggg gaaaccccc aaaaaggggg 360
tgttctgttg ggcccgattc aaaagccttc gcaaagcata tttt 404

<210> 31155
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067f07d1

<400> 31155

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ttctatatcc tttcaagttt ccttctaacc cattctgata ttctcctgat cttgctcacc 180

agctgagcat tttttgtaat ttttaaagtat tcttcagcat ttgataacat taccattata 240
 tcatgcttga caccttccac actccgatag tagtcattct tcaatcttga ttgaattagt 300
 tcaggataga atggggcagg aaacctgttt gcaaactcta acctctcagc tacttggttc 360
 aatgcttggga tatcaaacct cctgtggtct aatttgatga aataggaaag cagcttatct 420
 ctgatctcat gatcaatgtg gggatgctcc cacagcatct caggatcata tagttcccac 480
 ggactatgca gaagaatctc gcttggatca atcttggact ggaccccata ccttttccag 540
 gg 542

<210> 31156
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067f09d1
 <400> 31156

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 acacatgcac cacctaataa tcataatttt acatctttac atacaaaata caaagacttt 180
 aaattttaaa aagaagaaaa gagataaaca gatcatctta atgaaatgaa accaaaaccc 240
 acaaacattg gcttgatttt tgttggtgtt gctgttccca acttgattaa gcatgaaccg 300
 cttgattgaa tcacttggaac ttgaagggaa tggccctgat tacgacctgg tggtagagtg 360
 ctgcaagagc tgcaccgatg aatgggtccca ccc 393

<210> 31157
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067f10d1
 <400> 31157

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 cccttacgag aggaaaaacc tataaggccg tctaccaact caacatattg cactgttttt 120
 caatgatatc tctcacagca acacaaaagtg tttattccga attcacacta aaataaaactc 180

gattaagata aaaatttggg acggggtagc gatgatatcc aagctcagac tcaattcttt 240
aagccacgga tgcaatgtgg acaatcaa atcaacacg ggaactgtga cccatttcgt 300
tgtcatacca ggaaacaagt ttacaaaagg tgtgattcaa agaaattccg gccttggcgt 360
caaatatgct agacctgtta tcaccaacaa aatcagtaga cacaacatca tc 412

<210> 31158
<211> 362
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067f12d1

<400> 31158

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ataagtgaag tctcttctat gggaacgtac acacaaaag ggagattctt accaagcata 120
atatggaaaa taaaccccc aagaagtgc tgaagaaacc ataaaccatt aaattagaat 180
gggctatttg gatacaatgg tttttgacag ccctgaagta ccgtgttttc ttttctttcc 240
gtttgatagt gtaagggttaa gtcaagggtc actttgcttt tcattttttg gggttaattct 300
gggctaaatt tgggtgtttt tgcgacctg ctccatgggc ccggtagaag ttttgtttgt 360
tt 362

<210> 31159
<211> 462
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067g01d1

<400> 31159

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tgaatacaac cgagataaat taaaattcca tgccaccatg gccacaagt ttatatacgt 180
acttttaaca ttataaatc catctttcac attatcgatt aaaacaatga caccattatg 240
gtgaccgata atgcaacaat gaacataaaa gaggtgaagc attgtgaggc cgaagatgca 300
ttagtatttg taggagaaga agatgatggg ggtgatgata atgatgttga tgacaataat 360

ggtgacagtg atggtgacag tgacggagat gttgccggtg acaatgcggg ggaaggagca 420
ttcccttttc gtatgggaat cttcaccttc attccttgac ta 462

<210> 31160
<211> 525
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067g02d1

<400> 31160

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tatcttttta tcttagtggc agatattgaa catccttttag tatttggtgt aggagagcta 180
caatcacatt ttctttctca ttgcaagcc aaaacacaat atgaagcatt gactgcacct 240
tctcttttta taagaagata cagaaaaaag gggagaaaga atattagggg tggaagaagg 300
tgaaaaaatt gaacaaaaaa aaagagatgc tgcccatcat catccagaaa caaaataagg 360
tctgccacc ccaggaattt tgaaacagcc acttctggat ctttttttct aaaagctcct 420
gctaaagatt ttgaaggga cttgtagtgt gagttaaag tagcatccaa ctcatgggtt 480
ggtaagaagg ggaaagaagc cttctccaca gcaaccccaa aaaca 525

<210> 31161
<211> 227
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067g05d1

<400> 31161

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attgctcttt acttaggaca acacaaggaa gacaggggtcc ccagttttt tactccacat 180
taagggttat aatcttctca agaatgacca tatgagggga gggaaaa 227

<210> 31162
<211> 462

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g07d1
 <400> 31162

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 ttggcctttt ctacagatact ggtggatcat agccatacaa tgcctgcctg ttgaacacag 180
 ttccagtacc aacatatact ggaccttgaa tcccatcaag ccctttcata ttgatataca 240
 agaacactgt gtttcggtta gcatatctat cgtggcgatc aataccatca aatctttgtg 300
 gaaattggac ataacacagc ttcttcccta ggttgggggtg cattaaaaag cacatggcct 360
 ctcttactgc cttgctgtta ttgacgtagt gatcacaatc cagattcaac atgaatgggtg 420
 catttgaag cacagcagaa actcgaacca aaagcattca tg 462

<210> 31163
 <211> 339
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g08d1
 <400> 31163

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 tgccttaaaa atccattga aaaagcctaa aggaaaataa gtttttaaaa ccgggttttg 180
 ggggaaagca accccttttg ggcccttcc tcaatttggg ggcccgcccc cttcccccc 240
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 ccccttggg acaatttggg aatggtggg ttgcagaac 339

<210> 31164
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g09d1
 <400> 31164

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 tggtttattg gtcttaaaac taataccaaa agggaaggaa aaaaacaaat attaggggaat 180
 cattcttaga tattgaaagg attctactaa agttcagcac aagaaatcac aaatatagta 240
 acggcaggaa cctgcaacaa catgcctccc tttaggctac taciaacgca ggggatgaac 300
 ctgtaaagtg atgaattgat ccaaataagc cctttgcagc accaaagtga cttaatctgt 360
 acacaccaag agtcacaccc tgtggtatta tccattccaa gggtccttta ctctt 415

<210> 31165
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067g10d1
 <400> 31165

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 agtggagccc tcatcaccct cgatcttatt cttaatatta ataatgctac tcatatacta 180
 gtgagtagtt tccggtttcc tgcgtccatg actttctctt caaaccttga tggtagcgca 240
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 ggcgttggtg gctttgaagc cggagatttg gctggcgcc gacttgaggc agttgcacgc 360
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<210> 31166
 <211> 514
 <212> DNA
 <213> Glycine max
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 <400> 31166

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tgatcggcga ggttctccaa tggacccttt ccggtgacaa tggcctgaac aaagaagcca 240
 aacatagaga acatggccaa tcgtccgttc ttgagttcct tcaccttaag ctcagcaaaa 300
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 gtgacctcac cgagggggcc accagcaata cggtaacctt caacggcacc cattaggata 420
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<210> 31167
 <211> 332
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067g12d1

<400> 31167
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 aattttattg ctttggcata atcatgttta tctgtttaaa caatatgggc tgaataccat 180
 ccccaaaggg caacaagcat cagccctaatt tttaagaaac atctgactat tacaattaag 240
 tatatactat aaaaaatatg agcatgatga ctacgaactc ccattccatg ggacactagt 300
 tctatagaca gatgcacgag accaaattac at 332

<210> 31168
 <211> 597
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400067h02d1

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 tatcgagagc agactcacia gcaagttcag ggtgaaactt agtttagcta cagtacatac 180
 atgatacaaa atgagctttc tataaacata ctagaattat gactgcagct cttttcaaca 240

ggactagcag aattatgctt atttgcaaac ccgttagttc aataagcata tcaataactt 300
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 catggaaata gtacagccta actctttggc agcggtatca agaaagttaa tagacaatcc 420
 gtttgaaagt cggctgtgag cttcccaagt caagcatttt tctatgtcag cttgccagtc 480
 aatgacatcc aaattgaagt attgataaga ggggttggtg gtgccattta atctcgaggt 540
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<210> 31169
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067h03d1
 <400> 31169

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 cttacattaa cagttatgct gggtcaggtc agattacaac ggataaaatt tggctaggta 180
 ttctacttgg aaaactaagg gatgtttggt tttccattca gaagattcaa acgttattca 240
 gttcaatgaa actacacca cggattgggt ttaagtttga acatcctttg gaacacgaac 300
 taaaaaccaa acacaaacta atcccaaat caggttatga aggagaagtg gcttgggttc 360
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 atg 483

<210> 31170
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400067h04d1
 <400> 31170

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gcaagagcgt gaggagatga ggattcgatt ggagctggct gaagctctgg cgaagaaaca 180
 cgaggaacaa atcgagaga ttgtcgcgca atttggccaa aatcgagatc gtgatcgca 240
 gggaggtcca attcttgaag gaatcagcaa cagtgggtgt catcttgagg atatgaatcg 300
 aagggagaag tagcgcaagc tggagattcg atttttgctg gagaagatgc gtttggctct 360
 tagctccgat tggagagata ttttctattg aaagatgtca ctgaagatga aaagatgc 418

<210> 31171
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067h06d1

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 tataaaaacc tatatatagt cctatactgc attagctaca agataaataa actccacata 180
 tgctttaagc aggttggctt tcttgctggg gattccatca ccaacatcac catcaccatt 240
 cttgttgctt tatttacata aaaagggata tgaaggtgtt cagaacactc ctgccatgga 300
 aggcaggtcg tccaagctgc aaaggttcat agggatctca gcagcatact gagatgcatg 360
 ttcactgagc aaagacgcca atgcagcatc agcccaggct tgatcaagaa aagaaggggt 420
 ctgaaagaac tgtaagtggg attcaatgtc tgcaagctcc tcacaaaga 469

<210> 31172
 <211> 386
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400067h07d1

<400> 31172
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 gctcccggat tcagatgagt agtattttct ctttttcctt ctgccttttg aagatttttt 180
 attctttccc atttttgatg tatttacctt ctttccatcc tcgctatatt caccacaatt 240

atatacctagg agaaagctga acctgcaatg catttttcat gacagtggta aaatcctgtt 360
tcttcgaaaa 370

<210> 31175
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067h10d1

<400> 31175

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taattttatt ctaggaatgc aggcataat tacatttagc caaatatgca ttccatcctt 180
gaagacgata ttcacgagct atctcagcag ggtttgctgc tttgatgatg ccacgtacca 240
cgatgatgat gtcactgccc ctatcatgga tcacagaata tggagtgtta tattgctgcc 300
ctaaagcatc gccaccagtt accatttgaa ctccaggggt tgcttgaatg aaagaaggat 360
ttattggtgc ccctggccat gatgcaagat tgactgagat gaatccaatt acaaagtcag 420
aatgatcctt agcaatttta ct 442

<210> 31176
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067h11d1

<400> 31176

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attcattagg gaaaacagga gttgggaaaa ataaggggag aggggttgag gaagaatcaa 120
ttgctcacag agcatgctaa aacatctaaa tattccacac acggttattg aaacaacca 180
atatagaaaa tttttctttg gtgtattata aaagcagaac caatgaactt gtagattcta 240
ctttcttata ccattcactt ggcaagtctg ttacggatga gttttgctgc ggcaaccatg 300
tttgtgaggg ctggcttcac ttcagtgtac ttgcgggtct tgagaccaca gtcaggggtg 360
accacaaga tggttcttctc gagcactgca agcatcttat tgattctgtc agcgatttct 420

tcagttggtg ggattcttgg ggagtggatg tcatagacac cagggccaat ttcagcacca 480
tacttcacac cttcacggaa gactgacagg agc 513

<210> 31177
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400067h12d1

<400> 31177

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caacaacatt gaaacaatga caccaataag ttgctttgta aaaccagaca tgctggtgta 120
gtttactacc acaaggccaa aattcattga caatttcggt tccacgataa agaaatgagg 180
gtatcaatag cctgggttggt cagggtatatt cttatgctgc gttacctctt taataacacc 240
atcagcaagt gagtcaacat cattgttctt gccaaaaaac tttagaatt ccatctcagg 300
actcatcaag tatctccact atttctactc tcatccttgc cattgaaata tttcaaagat 360
tagatcatat aacaatggag tgatcaacaa gataatctga gtcttctctt gctgtcttca 420
tgtaataaac gcgatatgca cgagcaacat tcttgacctc atcggggcta ccagttaatt 480
caattaactt tggatgaaat tctgtgacat attcaccgac t 521

<210> 31178
<211> 303
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068a03d1

<400> 31178

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gcaacctatc tttaaagatg atacaagatt tataatgaaa atgaagcaac ctctatatc 120
acaacaataa tgaaataact ggtaacatgg agtcctatgt ttttatataa atactctccg 180
gctatatatg aatctacact ccaacagcaa cctcatatga tacaatctca ggtggggatg 240
agttcaagac cagtgaaca ttctgatcaa gttcattttt ggattctagc tccatgtcat 300
ttt 303

<210> 31179
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068a04d1

<400> 31179

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 aataaactgt tctaactgaa atccagttca cagcggcagc aatttccatt tgaaaacaaa 180
 taaaccaagc ataaaataac tgacatctta caatgttagc taaatggtag gaagagctac 240
 tgctgttgct taaggagatg tcaataatcg cttgatgccca cttttctgtt cggatgtaag 300
 cctggaggga aacttgatat tgaacttgat tcttaagttt cccttcttgg aaggttcttt 360
 tggaatgggc ataccctctc ctttgacaac ttcttcatat gttggactaa tagtggagtt 420
 aatggggaat gtaagattcc ggccatcaag ggttgtcagc tgcact 466

<210> 31180
 <211> 396
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068a05d1

<400> 31180

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 atatggaaaa taaacccccca aagaagtgcga agaagaaacc ataaaccatc aaattagaat 180
 gggctatttg gatacattgt tctttgacag ccctgaagta cgttttctt ttccttcccg 240
 tttgatagtg taggttttagc caaggctact ttgctttcat tttggttcat cttgtctaata 300
 atgggttttt gcacctgccc atggccgttg agttttgatg ttttggtggt ctgaccttca 360
 acccgaactt tccaaggacg tgctcgaacc caacgc 396

<210> 31181
 <211> 355
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a06d1

<400> 31181

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 atgcttgctt ctagataact ttttgccttg aatcaaacct tttattttat acatcttgaa 120
 ggcacatctt attctgacat tatgcttaga ccagatgcaa gtgatggaat actttgttca 180
 tatctgaaaa aattgcttgg atcaaccttg gtctttacct ctaccagtct atcatagttt 240
 cttttgaaat acttctcacc ccagactcta gcctctgcat aactagcatt tccaggtcca 300
 ttgacaccta tatcaacgtc tttatagttg atatatgaac ttctaggtga acttg 355

<210> 31182

<211> 559

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a07d1

<400> 31182

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 gaaggaaata gagcaaaaag gaaactgaag tagcagacca taacaacttc agaattttgc 120
 agtataagca cattagcaga aagtctgcc aagatgggc tctcacatac cctgaaaacc 180
 taatatgtta attggcaata tttgaaagga acacaaaaca atgttgaaac aacaagctaa 240
 tagacaaaac aaatgaatgt tttttccaat tacatactga aacaaaact gaatagtatc 300
 aaactacaag agcacaagtc caagtccaga tggtttcaag gcactacgaa tcctataatt 360
 gtacaagtag taatggagct gtccatctcc cgggtccaaac ttgagctctt tgaggaaact 420
 ctcattgtgc attacatcca atgcattgaa aacatcaaaa tccttttgct ttgctacaat 480
 cagcacatca ttcacaaact gagtcagtgg agtttttggg gagacattat aataagaata 540
 agcagctttc aaaattgag 559

<210> 31183

<211> 319

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a11d1

<400> 31183

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tcaacacaag aagactgcaa atcagcagcg agacattggt ttctgaatga agagagagaa 120
tggaaaaaaa gaaaatcttt gacaaaaata gaaggaaaaa taaaagcgcg ctatcacaag 180
gatagtacaa cactgaacca ggcactcaat tattttgaag gaaatttggt gtgatttaca 240
gcgcaagaca tcttgcaggt tgacaacttt ttatgctgat ttcccttggc gcttctcttc 300
ctccatcctg gctttgatg 319

<210> 31184

<211> 351

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068a12d1

<400> 31184

cacaccaaag gatctgattc attaaaagca atagattctt cacaaccaca caccactcac 60
ttgacatata tggaacacat acataatcca tatagcatta cttagtgggg gggcatttct 120
tacttttatt taatgcacaa acataacaag ggcaggaagg aaaaccacaa aattaaaacg 180
aagatcatat agctgttaat aataacaaca acacatgcaa cataaaaacc acatgcagtt 240
gtggtagtgg catcttcttc agattggaaa cgctcaatg atggaaggga gagcgttgat 300
cttgatgatg ttgtaacgcg cgaaaccggt ttccttgaac agccacttcc a 351

<210> 31185

<211> 290

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068b02d1

<400> 31185

gagcccaaaa aaaatcctgg gggaaagttt tttttaaaat agctaaaaac gggtttcttt 60
ttaataaaaa aagggcatta attcttgccc cccacttaac ccttccattc ttttccaaa 120
taaactttta tttccagcta atgctttttt tttgaactat tttttatgct acaaaagctg 180

gttaacgggg ctttctttgc aaataaagat cgccgtaatt ttagtaaacc tatttttttt 240
 tataattaaa ttaaagcgct aattgggggg ttataccctt ggtttgggcc 290

<210> 31186
 <211> 318
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068b03d1

<400> 31186

acctctgctg tccgagtgcc ttcgtaaagg tctactagcca ccattggtcc catccgatct 60
 cttttaaaca attccaacaa caaaactcca ctaatagttc catccagcaa gtgaactctt 120
 tgaacaccac ctctgcaaac gaaagctgca gcggccaatt ctgacaggta gccattcatt 180
 cgacttagcc gctcttgacc tccaatagca aaaccttgct caccggaccc taagccattt 240
 ccattctcaa aaccaacacc attatggaag gttgcattat gccattctgt aaaacatcca 300
 ataggtggtg atttgact 318

<210> 31187
 <211> 342
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068b04d1

<400> 31187

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 ggggccaaac cccctaataaa aaatttttaa gggggggggg gaggggaacct caaggggaaa 120
 aagcttttag gttttaaatt ggaaacaggg gggggggggg ccaaaatttt tggggcctgc 180
 cccaaaaccg ggtttgggat tcaattaaag ggaaaaatct caaccccccg gggggggggg 240
 ggggaaaccc catttttggg ctgggggggg ccttggttcc caaaaactcg gttttggata 300
 ttgggggggg cccccgggc caaaaaaaaaa aaaacccctt tt 342

<210> 31188
 <211> 370
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068b06d1

<400> 31188

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aatcaaaat atattcagat acactgaaat ggcaatgaag cataacatga agttgggaag   60
aggtagcttt tatttgcaaa atgatggcat tccatcccat aaaaatatag atccacacaa  120
tttgtaatga acaagaatgt aatacttctt tctttaaacc atgataacac agattgtcag  180
gagcaactgt tgtcttctag atgttggaac tcgatacagg ctcacggagg atcctctcca  240
tctgttgtgc cctggtctta attgacatgt caaagacctt ctggctgaat tcaagcacia  300
gaccaccaag tatgcttgga tcaatcttct gatcaagatg aacctttgct ccagaacct  360
ttatttcctg                                     370

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<210> 31189

<211> 362

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068b12d1

<400> 31189

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cggtagtcc gaacacgtga cccatgtcca tctcacttg tttcattcca tctggcaatt  120
gccacgtgaa gcagtgaaga agatgagcca ccgccaattc aagcgctag agccccaaca  180
ccattccggg gcaggatctt tgacccgacc cgaatggaat gaactcgaag ttgctcccct  240
tgaaatccgg cagccccggg ttaaggaacc gggcgggctt aaaagtctcg ggttcctccc  300
atgaatactt gtccctccca atggcccccg cgttgatcat aacacgcgcc ttctgggga  360
ct                                     362

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<210> 31190

<211> 462

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068c01d1

<400> 31190

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atcataaaga aagagtaa atcgatgggcaa agttgatggt gaaaactgta cactgaaatg   60

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attttactca cgtatacatg ttactatact ggacacagat gaactgcatt ataaatgggg 120
 aaactaactc gaaacactac atcacagaat tccaaaattg gataatcata actatatatc 180
 aaaaaattat gacacaacac aaatatacat gtgcttatat gaacgggagg catggggaaa 240
 tttgttgata gcttggatct ggacctgtac agcgcttgca cgctgaaccc gagttgtctt 300
 gaagtgaagt tcgcctccga aattggatct gcatcaatct gcatgctagt ataaatgttc 360
 atgcatatat atgtgaacaa agaatactaa gagcaggagc tatatcctat atggagttca 420
 cagtatcatg tatgaacaca ccaggataaa gaattttgca tt 462

<210> 31191
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400068c02d1
 <400> 31191

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 attttactca cgtatacatg ttactatact ggacacagat gaactgcatt ataaatgggg 120
 aaactaactc gaaacactac atcacagaat tccaaaattg gataatcata actatatatc 180
 aaaaaattat gacacaacac aaatatacat gtgcttatat gaacgggagg catggggaaa 240
 tttgttgata gcttggatct ggacctgtac agcgcttgca cgctgaaccc gagttgtctt 300
 gaagtgaagt tcgactccga aattggatct gcatcaatca tgatgctagg ataaatgttc 360
 atgcatatat atgtgaacaa agaatactaa gagcaggagc tatatcctat atggagttca 420
 cagcatcatg tatgaacac 439

<210> 31192
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400068c05d1
 <400> 31192

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 ttaccaaaaca tttatatata tatatatata taaaaaaaag gcaaccatga ccttaacaca 120

cccatcacaa gtccaaaaca cttgaacttg ctcaaggga agaaatgacc actttattct 180
aagggtgttt gtttagacac aaaacaccag agggcaacat aatacatact acataatttt 240
gaagttttga aactacatat agtttttatac attattttcta agggccattt ctgcttgaag 300
cttttagctct ccaacacctc acttgcaagt gcaggggttg caggtgcagt tagctccaca 360
t 361

<210> 31193
<211> 485
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068c07d1

<400> 31193
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aattgaacac aaatataaag ttgacattta aaaagcaaac caacaacgca acgggaaagc 120
cctaaaactc gctgtgctta acaaaaatgt aatcaggggt tctcaciaac acaacacatt 180
aaaacagaat gataaaagga gtcttgccac cgtcgatcaa gaaccaatt ctgggaacaa 240
aagttgcgag atgatggtgg agacttcaaa ctatgttcga aaaacaagct acctataaac 300
gaagacacaa gggcaagaaa ccaacattta ttgtgaccat aagatacgac atcccctgat 360
gaaccaaacc gcacgattca cttctttcttc tgggcagcct tgggtgacctt ggctccagta 420
ggatcctttt tctccacgtt tttgatgact cccacagcat cagtttgacg catattcctg 480
acagc 485

<210> 31194
<211> 359
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400068c09d1

<400> 31194
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tccatagctt cccacaaaaa atattaacat ttggcccgtta aaaccctccc aataaacaaa 120
ggaccccccc ctttttttagg cattacggga aaaccctga ttttaaaacg gttgccatca 180

gttttctat tccccaggt atccccctta tgggggaaaa taaaatcccc ccgccccct 240
 ggtaaaaacc cccctgccac ccaacaaaaa gggaaaaccc gcccgatttc ctttcggaag 300
 gaagggccct ttaaacaccc ccaacttttt tttaagcaaa attttttttt gagggggcc 359

<210> 31195
 <211> 354
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068c11d1

<400> 31195

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 tcattcgga aaacaagcta ggggaaaggg gattcaaatc aaaaaaaaaa ggttcttatg 180
 ggggagacca taaaccaagc cccggagggg gatcatcttg gtaaaaaaaaa ccaatcaagg 240
 ggaggggggtg cctgccttga tgccataacc ctattaatta agctaggatg cccccaggg 300
 ttgccccatg ttggcctgat caacggccat ttccattcta aaaagggact tggt 354

<210> 31196
 <211> 351
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068c12d1

<400> 31196

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 ggatatcatc aacccacag agagggtttc ttaccactcc ccctgaagct ctctagtaaa 180
 acaatgaatg acaaaaataat ggggggggaa aaatagatta tcattcgggt actttgcagc 240
 catccctcgc ttcagtatca ttacattccc tctccttgct ccacccaaaa aaattgacaa 300
 aaagaatgcg ttgtgaaatg aaatacctat cacacgatgg aatgggtcaa a 351

<210> 31197
 <211> 354
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068d02d1

<400> 31197

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 aacaagggtgg cgggtggtggt ttttggtttc caatttccaa atgaaacgaa accctaacca 180
 gagttttggt cgtccttggt atggggcttt ctgcagagga tcatgtgcat cggagagaaa 240
 atcccagagt caccctctt ggtcaaatag tcagcgggtct tgaagagcat ctcatgaaca 300
 tcgacggtcc ccttaggcgc gattcccaaa gcggcgagaa cagtgaccac aata 354

<210> 31198

<211> 319

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068d06d1

<400> 31198

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 aatttcaaaa tcctcctctt caacttgaga atgaattact tcttgccact ttgcatcata 120
 gaaagtgaga aactttcttc acatacaact ctgccttcta ttgttgagga ggggtgatga 180
 atgaacaaag caattatgca gcagtcaact aatgttgcaa aaagatacat ttgtcatcca 240
 atcacctaga agcgagccca gcatctaata cattgtgcaa taaaaactcc cttacaatga 300
 acattataac cccaactt 319

<210> 31199

<211> 281

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068d07d1

<400> 31199

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 taatacatat aaatcaattt acaacggcaa tgctgagaag attattgag caaatgaact 120

gcatatattc taatacaatg gacaagagta cgatgggatt tctacagaaa ccccgttgat 180
 gttttagaac aaacgtacct atattggaaa tagaatggga taacgttcta agtacaataa 240
 ttttatagga cacggccaaa tcattcttatg gagatgaaat t 281

<210> 31200
 <211> 572
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d08d1

<400> 31200

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 ctttttatct gatctaaacc tctcaagttt cttacaattt gagcagatca ccaaacctat 180
 tttccttccc tattgtccta aacaccacaa gaacctatat aattagagta gagactcaac 240
 ctatatacag ccagttctca ctccccgag ctctcgcatg agcttccaag atttgaagtt 300
 atgtcatgca caaaaccct gattattttg cttcctgatg atcttgaaac atccatgcac 360
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 atttcaaag taccacctc tagtttcaat cttttggcaa cttcttctt cagttcaaca 480
 atgccacagg tcaacgagac ccgaaatctt atgatatctt ctctgtatgt ggccttggat 540
 gtcactgtct tcatttcttt catagctaca aa 572

<210> 31201
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d09d1

<400> 31201

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 cgtgagatcc ttttggttca agattttttg tattccatt ctgtaattct caataaccaa 180
 aagaatccta cacattaataa aatgaatatt tgtcatcatc atgtagagct caaattagag 240

tcgaagatat tagaaacctc gtggacttta aacaaaatgg acatgctgta tccaattgat 300
 tacacactgg acacacttcc ctttgaagtt tggatacaca ttgcgactct cctcgtcaga 360
 gctcttttga caactatgaa ttggagggag aaagcttcag aatagccgaa aggatatatg 420
 taagcacaaa aaatagcgct aattctttca tttgaataca cccat 465

<210> 31202
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d10d1

<400> 31202

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 acaacatcca tgaaatccaa tcattaataaa ttggaaaacc aaaccaaacc aaaccaaacc 120
 aaacttattc caacaccact catcaaacag aaaaacaatc caaactttca aaactcacia 180
 actcaagaac aacttgaaat tactactaac aaaaacaaga ccaattgggtc aaaaaccatg 240
 aatcttgatc tggtccttcc tgacaaggcc agcctgaacg aggaagtggg agacgttctt 300
 acgctgggtc ccttgaggtt ggatgatctt gccaaagctc ttgtcctgca ccacgggtcc 360
 gttgcagcag aactccttct tgaggctcctt gaggatcttc tcgtagctga actccttctt 420
 cagcccttgc actgtgggtc gactcttctt cccattcctc tgctgaattc gaatatgcac 480
 atactccttt gctccggggg ca 502

<210> 31203
 <211> 428
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d11d1

<400> 31203

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 aaagtaactg ctgttgacaa aaaaaggatg gaaatactga aacaaacaaa gggaagtttt 180
 accacccttt ctacacaatg tatcaactgg aaagttgaag caaatatcca ctcacaaatc 240

tttgacgaag accatcagtt aatgagacgc cggacgagtg acccttggtc tcaccggagt 300
 ctttgaagga cttaccctta ttggatgggg cccaagagc atgccacttc aggttagtgc 360
 cattatagcg ctttcagcca ttgggaattt cacaaaaaca attcgggttg aatgcacgtg 420
 gtgccccca 428

<210> 31204
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068d12d1

<400> 31204

ggatcaaacc aacctatatt ctatatgggc ttttactttg catcagatac gacaatatag 60
 aacgttatat ttccgtcata atgttgacag taatgttcaa tatattacat acgctaaaat 120
 ctagaacaac gcatgcccc ccatcataca caatatggga acaactggac taccgaaata 180
 tgggtgttatc taaaagacaa ttatatgttg acagaagcaa tggcagcata gctattaatc 240
 tccaaagaca agcttatgct tcgggatata aacattacag gggtaacgaa acaatacaat 300
 caaaatatgt aagcaacaac ttatccaaag agctgccttc ggatctctgg aagctgttta 360
 cggaacacta catcaagtcg tgcatacaaga gtattttttac acacaatctt tccatcacga 420
 gaagccaaca ccaccccacc agagcagtag agatcatga 459

<210> 31205
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e01d1

<400> 31205

cgtccaaaaa ttatagataa aaaaaaagtt attagaatta cagatatacc ctttattgat 60
 aataaaaaatg ttatgtttac atggtagaca attatcatcc tttatcaggt tgccctaccct 120
 tacacttttg aaccttttaa atcatcaatc acagcttggt ttttggtgat gcaacaatcg 180
 aaccatact ttgatgggtt gagatctcaa accacaaagc catgagtga agtgacacat 240
 ctcgttcaat aaaaactaga taactaataa agtatagttt gtagtaataa ataaataagc 300

atactctttt aaatgaatct atacgtctgg acgctcattc tgatcaaaaa tacgattatg 360
 gcaagtaggg ttgcaagggt aggcacaatc tatttacgga agggccttcg atcataaaac 420
 caatcaccca ctgcctttgc aattgatgtc ttggccacca c 461

<210> 31206
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e02d1

<400> 31206

caaaaaaggc gttctttata aatttgacag agaattacaa gagagattgt gatcgcataa 60
 aaaagaagaa cagagcatgg tgtcaaacac taattaccgg tacaaaattc tctgtgccgt 120
 accatacgta aaatcttgat attcataact ataacaataa caataacatc ataaaccata 180
 aaattcttcc attgtgtatt tgtgtttaga atgatctgaa tgatacatcg ttactattac 240
 cttcttcaca agcgaatcac caaaacgcaa gcgtgctaaa caagccaacc aaaagtggca 300
 acaacatggt ggcaaagctc cggcgggtggc ggtggctgat ggctccgctg aaattctcgt 360
 cgacgggata caagttccc ggaggcccgg tgatg 395

<210> 31207
 <211> 407
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e03d1

<400> 31207

caagaaacaa ggtgtattaa aaaaattaga gcaaatgata taacatacaa tacaaggaac 60
 gaaagctgct tttcaattca tatatgaaat gtgctgtgga ctgcggtgga cagtgtcgtc 120
 ttgtgtgtaa ccaattaacc attatgaata agaaactgga aggtccaaca tattctattt 180
 tctaactaaa gacaagtctc ggacacacct gatgcttata ggggcgaaaa caacctaacg 240
 gaaatagatg gatatttggg ggatgtcaat gtcattatca tcatcatcct cacaggcgac 300
 aacaacatcc aagtgacgac ggtaagaagg tatttccacc ttggccactt tcctagctaa 360
 atccaccatt tttttgtcca ttogttctct gggcctaggg aacatgc 407

<210> 31208
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e04d1

<400> 31208

ctcaaaggat aactagattc gatcagtatc ctaaatacaca ccttgacctc aacacagtat 60
 agacaaaaac atgaggcaag gctttctcca aagacattcc aagaatccaa cgtagacaaa 120
 agtcatgcat aagaacaaca aatattacgg aaacatgact caatataaca acataaaagc 180
 aagccaatat aagaacaaac agataggtgc cgcataacat tgttcccaa ctccactccc 240
 actaaccctt tattttttcc attctccaca ccaagctcat caaagtttta tcccgcaaac 300
 cgtacataca ctattagtaa ttacaatctt cttcacgttg gagagcagag caaacacact 360
 tacgcatcac atagcataag taagacacag gcattcttca cattcagtct cttcac 416

<210> 31209
 <211> 536
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e09d1

<400> 31209

acatactggg aaacctttta ttggataacc atggaagttg acagaaacag caaaatcatc 60
 ccattcatga tttttgtgca acaatgatca tttccattat tctagggttt ttattaagac 120
 aatgatgaag acaatctttg agttcacggt atgctagtgt ttttaaatac atggacattg 180
 cagtattttg cttgtagatg aatgttgac catttgatta gtcggtctcc aaactgcagc 240
 ctttgctcct gtttgccctg gcactcactt cagtccctt tgttcttgat tatgtttttc 300
 aatttctcat ttgcagccac tagttcagca gttatgcctg gttcattggc tgaatgcctt 360
 gcacaggaa ccaccctaaa atctgcctct ggccaagctt tatgaagatc ccaggctggc 420
 atcataggac agcaaacatc atatttttcc tgaacgaatg tgggtgttat atgccttatt 480
 ttatcaattc ttgccaccgg aatgaatcaa aggggaaaaa tcccttggtt acaaaa 536

<210> 31210

<211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e10d1

<400> 31210

aactcgcgaa ttgtttcttc attttatgca tatgcatata caaatttaca tacatgcatt 60
 tatttgcaca aggctcataa gagtaaagta cagagtgggg attcaggggg actagttgta 120
 tgtaagaagt attttttcga gtgcatattt tgcttctatt gcaaaccaaa tggaccttat 180
 gatctgaagc ttggcacaaa acacagatta tacaatttta agctacactc tcaaaacaga 240
 taagctatga aaatggacat tgatcactga tcaatcatag gtgcatgaat tctttttgaa 300
 tttgataggc tttgatcgag aagagttgag gaccaagggg caagtgattt ccttacgatg 360
 ccttgtcttg accagtttac ccactacatt tgcacgcgaa cggatttcaa agttcaat 418

<210> 31211
 <211> 491
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068e12d1

<400> 31211

gcagcataaa gacacgaaga tattactaat atgatgatga ctagtacaat catgtcgaac 60
 aagatttcaa gtattacaaa ttgaaatcca ttacctggg ttggatgaca ataataatat 120
 atataaaaag tatattaaaa aaaaaactta caaacagctt aaatagccag aacatttgga 180
 tttactccaa gcaattaagg tcaacaacac aaagggtgaat tggatcatca catcttctat 240
 gacacagtgt caatcgcacc cctttacaac cttcatacaa gtgagctcaa taaaaaaca 300
 ccggttaaag tcccccgtaa ctggaaaagg ttcattcatc attgtcagca taaccacaga 360
 gtgcaacatc attccaatcc ctcttctaac ttttgataa ttcatagaa cacaacagaa 420
 acatgggttag tggtatatca cccaatcaa attaaaactc catgcaaaga agttgccgtt 480
 attagacatt g 491

<210> 31212
 <211> 446
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f04d1

<400> 31212

aatgcttcat aaatatacaa gaaattcttg tacatcattt ttctttatat caaacctgat 60
 aaaagagata taggaaatta taacgtgcaa atattagaat ccaaaatata aatagaaaaa 120
 tcttaattat tcggagcatc ttcaaactaa tactacaaac ccagtccaat tttaatgact 180
 acaacatttt ttgaaatcgg aaatcagtca tgcttcacgt gggccatcat aaccattaga 240
 atataatggt gaccaccaac cttgaatcct tgccttggt tacttaaatt ccctccaaga 300
 caagctggga atgaaaaaac tcgcaaatca ccccaaatta acacccccac ctgaaaactc 360
 cacctcctga gcaggtgcca aggatgagac ccagtctgat gtgtgtgtag gaagaagccc 420
 caatgcattg agctttcaaa caccta 446

<210> 31213

<211> 399

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f05d1

<400> 31213

ggaaaccaac aaaactaaac tcttaattga tacgcaaaaa catccttata atttacaagg 60
 ccaataccag cggaatgttg tttgaaattt aagggaattc atgaagcaat caagatctgg 120
 ggatgttatg cttcttacat ttaggaactt gatagttttg aactctacca acattatata 180
 gctggctaag gatttctga cagggataaa aacctaacag attgggggac atctatTTTT 240
 aaacttggga tataaaaaaa aacactggag cttattttat ttggataact cagggctcat 300
 ggacacttgg gaccttaaaa gggcaggcaa cagacctgtt taacaaactg ggcttgtaga 360
 ttatatggcc tgcttgaaac cttcatttgg ccaaagggtg 399

<210> 31214

<211> 510

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f06d1

<400> 31214

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ctctctccat cccattacta tacaccctgc aaaatgcctt attctttcta ttccctccct 60
cgctctcaat taattaagct tcttcttctt ccctcttaac tccattcctc tgaacagtac 120
cactgcagag ttggtgcttg ttcgtccgag aagaaattgc aggcctcgtc ggcgtgaga 180
aaattgtgct cctccatctt cacgtactgc gtcgtcgtct ggtactgttt ctggaactgg 240
aaacagttgt tcatcgacga agaagaaggc gacgacaaaa gcccgtagct ttgcagaacc 300
ccacacgacg aaatcgccgc gttgttggtg gggctgtggg tgttgttctc ctcgttcaag 360
atcgcaactg agtcgctatc agaagacca tctttgaaat ccacatggaa cacagaaccc 420
ccctccacct tatcactctt gttgaaacac tcggtactca actccttgag tccaatccag 480
gaatggcgga ttcacaagcg gggtactatc 510
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<210> 31215

<211> 453

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f07d1

<400> 31215

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aaactcaacc tcaggaaatc acctgatata tacatcccta aataatgaaa aataaacacg 60
gatgtaagag ccaaaaaaag taacgagaat atacatgcac ttttgtacaa aggaccaact 120
taagtaagaa aagagagaat aaagataaca taacacccaa tctagtttag tctagttcgt 180
tagtttctaa gggtactccc agcacttttc tacttatttg gtactctcgt ttttatgtgt 240
tcaacaatct ctagaagaga ccagaggttg agggagagcta tcttcatttt tgagaagaat 300
gcacattggt cttacttctt acttcttaca aaatcgccat cctttggtag cacctgctga 360
aaggtaggca aagtcttaat agtttccatg tattgatcat tactgttaat gctattacaa 420
attcaccatc cttactggc actcaatggg aaa 453
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<210> 31216

<211> 541

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f09d1

<400> 31216

accaatagaa ttctgtgagtc tcaaattcat ttctattcat catgcccaaa cttctataca 60
 ctgcaaagtc atatctaagc accttgaaag tcaaagcatt tatataattc atcagctgta 120
 gaggtaacga aatgtaactc aaaaaatttg attacttttt tacaacatcc ttgaatgaaa 180
 ctggccaaac cctgcacgtt cctcaatgac aaaataccta gattagaagg atgagggttc 240
 tattgaagag tatccagcag cttttctttc cttcagtggt gaagccaacc agtccaggcc 300
 ctcataaaga ccatctgcct tgagtgcaca agtgccatgt atgtgccatt ttctattctt 360
 tagatcaaag agacctagtg cttcacatac ttgcattggc gtcacgccc ctctcaggtc 420
 ttgtttgttg gcaaacacca agatgacact attgagcata aatgggtcat ttatgattgt 480
 ctgaaattcc tgctttgctt tacctattct ctcacgatcc aagctatcaa caacataaat 540
 c 541

<210> 31217

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068f11d1

<400> 31217

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 aaccattca ggtccaacaa attcaaagc tgtgtaaata tgggagggga gcaaattgaa 120
 taaaataata taaaatagta gagtatctgt attctgagac aaacataaac aactgtaagt 180
 aaaactaacc gcaagaatac aatttgact aagcacctag agtgcattta agtatctaag 240
 cacttgctca ttgaactcaa agctcactga attccaagct gaaattgaaa ctaagcactt 300
 gcatgacatg tcgtctgcaa ttctctttac aacatgctcc taaaacaaga acattagttc 360
 tagatgttac tcattttgaa agcttatgat cagcagcatg acacaaagac tactgagaaa 420
 gattttaacc aagacatgtg aactcttaca ttcatggaag cttaaaatat cagcttca 478

<210> 31218

<211> 204

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068g02d1

<400> 31218

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ggggggcccc aataaaaaaa aaaaaatttt ttagggggaa aaggggaaaa cccacccca   60
aaaaaggggg gggctttggg gaaaaatccc cccacaaaaa aaaaaggggg ggtttgaaaa  120
aaaaaggact ttttgggggg ttgggcccc caaaaaacct ttgtgcatgg ggggggggaa  180
aaaaaaaaaa aagggggggg tttt                                     204

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<210> 31219

<211> 327

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068g03d1

<400> 31219

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ccttcctaac tgaaatcctt gttagtttag aaaaagctca acttcattca aatgtagaaa   60
agtaaaaatt cttaagctac aacagaaagc tggatctttc agccaaaatt tcacaactac  120
ttcctcgtgt tctctcatac tcaaccctag tcagttacag gattctgtat tccatatcca  180
tggtagagtc tagtgagtgg ctgaacgtga gaaattgggt atctacttct tcttctttga  240
cttgcttgac agagactgag tataagcagt tcctgtagc cattcatctg ttgaagcatc  300
agtagtctta gtcccaactt caacttt                                     327

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<210> 31220

<211> 340

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400068g05d1

<400> 31220

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ggggacaaac aaggataaat cccccttaac atcaattaat caatagctgg gcgaagatta   60
caaatcacag actttcaaag ggggtgtagc ctccctggga tccccggcca attttttgaa  120
taaaccaacc acccatttcc caacttttgg gtgagaacca atttttttaa caaggtaacc  180
aacaacattt tacgcccggg aattttaaagc aaacataatg gctgataatt aaccaagggg  240
gcacatgcga cacaccacac acattacaac ttttttttagc gggaaccact tagggatcat  300

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tttaacgagc cttaacaaga tgagcctccc cgtttttggg

340

<210> 31221
 <211> 619
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g08d1

<400> 31221

ctatgtatct atataatcga attgaaatta cgattctatc aaatcttttt atttactttt 60
 ttttttttta agaaaaaaga aagttctaata tattaataaa ttatatctat atatataat 120
 atacagatag atattctata tcttttatct taattaatat ttgaccctc cttataatgg 180
 gttatagttt tctttatttt taggaactta tccattcctt ttttaatgtg cccgacaatc 240
 cgaaagaatt ctgggggagg ggtcatttcg tttttgatct agaataaata gagcttcaag 300
 aaatgagaga attaagaata cccacgagaa acactaatcc aatccataat gatgtaccgg 360
 aaaatacaac atttttgtta ttcgaccaac cttcaggaga agcaaataca acaggtgcac 420
 taatcaataa aataaatgaa atagcaatta atgcaaaaac agctaattgg aaagcaatag 480
 tcatgtttct aatcctcaa tttaccaaca aaagaacttt accatttgat cccccaaccc 540
 cttgatccct ttatttgaca aaaaatttat aataaaaaaa cgcaagaggg ttttatcatg 600
 aattcattga tttttttac 619

<210> 31222
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g09d1

<400> 31222

gtgacatcga ccacccaaaa ttgttatgca ttaaaaacaa tgttacacat tattacaatt 60
 ttattcaaat atacaaaag aatcaatcaa ccagcaaata aatagatgga acatgggtgat 120
 gccggttgat atcctctaac tgcataaatt aattaccatc caaactcatg tcatttacac 180
 tttgaagcaa cggatccctt cggcaatgag ggatgctaca gcctcctttc acttgggtat 240
 aacaacttaa ccaagggaat caacacaaat aaatgtggta caataataag acacgaaaaa 300

ggctctctaa ccaagtacct tgcgaagttc atcgggtcaac ttcacgcgac ccgatggctc 360
 caacttgctt aaaagggcag caagaccttg aggtagagct tgcaaatacta gagctgagtc 420
 accaatatct gtcaattgaa gcaacacttt ctgcgcacgc aattccttta gtttattctc 480
 gtaatttgca ggattatcct tccatctgaa g 511

<210> 31223
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g10d1

<400> 31223

gcccgaagca aaatcaatga ctaagccgct gcattacttg aggtttaata gcccaccaat 60
 atattggcgt ggaacaaaaa cgcagcactg aactaaaccc taagcagttc cctttgggtt 120
 tccaaagaca aaaaatgtcc caacaatttg agtttgcctt aaggcaacaa aaaaggccct 180
 tcccaccgga ggagaagtcc cccaacagaa ccggcggggc gaaaccccc tttaaacccc 240
 cccccaattg ctgggtgggg ggcaaaaaaa gggggggggc cccccgggaa caaaaaggga 300
 gcccccgcc gttggagagg tctttgtttt tccacaaaaa acaaaatttt ttttttaaaa 360
 cccggtgaag aagcctcttt ttcggcccca caaatattgt tgggcccctt atttttgggg 420
 ggggcccccc ccctttggac gcccccaaaa agaagagttc ttttagaagg gggcccc 477

<210> 31224
 <211> 504
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g11d1

<400> 31224

aaaatatcca aagccaaaat ttgacacata aatttgattt tttaaaagca aaccaagcaa 60
 aaattgaaca caaatataaa gttgacattt aaaaagcaaa ccaacaacgc aacggcaaa 120
 ccctaaaact cgctgcgctt aacaaaaatg taatcagggg ttctcacaaa cacaacacat 180
 taaaacagaa tgataaaagg agtcttgcca ccgtcgatca agaaccat tctgggaaca 240
 aaagttgcga gatgatggtg gagacttcaa actatgtccg aaaaacaagc tacctagaaa 300

cgaagacaca agggctagaa accaacattt attgtaacca taagaaacga catcccctga 360
 tgaaccaaac cggacgattc acttcttctt ctgggcagcc ttggtgacct tggctccagt 420
 aggatccttc ttcttcacgt tcttgatgac tcccacagca acagtttgac gcatatccct 480
 gacagcaaag cgaccaagtg gggg 504

<210> 31225
 <211> 359
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068g12d1

<400> 31225

aaaaaaaa caccgggga atttgggaca aacccaaatt ttgggggggc gttggcccat 60
 aaactacaga accctggaaa ccaaccgcaa tcaaatttgg tccccctttg gaatttgaat 120
 cccaatcccg ggcttgggtt atttaaccct ttgtcccggg cccatggctg gctgaaattt 180
 gtacccaaac attttttttt ttggttcaaa aaaaaagggg aaaaatcttt ttgttcccgg 240
 cccccttatg ggaaaaaggg gggagggccc ccccggggg ctttaagccc tcggcttccc 300
 ttttacttaa agagggggcc ctttgggccc ttcacatttt cttaaactgg ttaagccct 359

<210> 31226
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h01d1

<400> 31226

gcaggataaa gggggaaata caaatattatg aggtgggagt taagtataat ttgtatgctc 60
 ggtggatctg atatcgagca cgatcccttt cagaattact aagactgcca taaaatatgt 120
 acacatcaac ttacagaaa aacaggtgat tcccgatct tcccttgat gattacaagg 180
 aatgcttccg tttagtcctt cccacaaatg tgtcaataaa acggaatgca tacccttcta 240
 atacaagtaa atgcaagaaa tgctcatcca ctgtacagtt tactctcata aggaatgtac 300
 aatgctaaca aaactagccc ccgccagagc aaaaagccta tctttacatt ttgccatatt 360
 ctcaaataaa actttcccac gagaaaaata gcatggcatt caatattatg gatg 414

<210> 31227
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400068h02d1

<400> 31227

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 aaaagctaga attggcatgt agtggtgatt cttcctgtca tcaacttggtt acctaacttc 120
 atccaattht aacaaccaca agacttacag aaaattgtaa gtaaaacgtt ttctttatat 180
 aagaacaatc atatattgta caccagctga cctatatggc tgtaccttgc caaaaagaaa 240
 ggaaaaaatt cctaagcata cactaccagc caacagaaaa agcagatccc aagatagaat 300
 ctgcaatctg catcatthta ataaaggagc cggatcttgg tacatctagg gatctaaact 360
 ctctcgccac taaacaggat gcagctatgt attaaccctc ttgtactacta ccccatcaac 420
 t 421

<210> 31228
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h03d1

<400> 31228

cataaaatca gatttcatat attataggat catctgtaac cccaactaca ccaccaagag 60
 gacaaagaac ttcacaaaac taaccctaaa accactctac ccaccacatt ctcaacttct 120
 accccctctc ttagccgtag cctttttcgc tggagacttt acactctttg gtttcacact 180
 cttcactggc gctttcttag caggcgctac tttcttcgct gccggcttcg cagcaggagc 240
 tgctttcttc cctggtgaag tccgtgtcga cgtccttgaa gccttggcgg gcttcgcttt 300
 gggctttgcc gcgggcttgg cagcagcagc ctttggttta gcagcgggct tgggcttggg 360
 cttggcagct ggcttaatcc ctttgggctt ggccgcagca agctttgggc ttggaaagca 420
 gcaccgcagc agcctttggg t 441

<210> 31229
 <211> 471
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h05d1

<400> 31229

cgcccatgat ctcattttat gttgccttca gaactcaagc tatacataac tgtaaaacat 60
 gcatgtatta catacaccgt cttctcttta ctaattcaga acagacattc agtaaacaga 120
 taccgaataa gcaaaagggtc tccagataaa taaataaaac acacagatac acaaagctat 180
 aatatagtca cccttcacta ccagagtttc atcttgcccc caaattttcc agtctatgtt 240
 tttatgactt ttttgcatth gctttcgcag aggatcagat cagtcagcag tcattggatg 300
 ggtcatgcaa cacctgaacc gagccttccg aactgttggtc atgatctcat tctctgcatt 360
 ctcaagcatt ccacaattt cagcaaattg tggcctgaca tcagggttgg gatcccagca 420
 tcttgatcatg atgtcacgga gaaccgctag gcaatcgta ggtatgattg g 471

<210> 31230
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h07d1

<400> 31230

aagagcaaga tatgggtaga gatcggttct tcacccacaa acaatttctg tattatgcta 60
 gtcgtacata acggaattca aatccttggt acagaagata cttcatgaca gcctttatta 120
 ttttcaacc agtcacagta atcaggactt cttttaatac actttgcctg atgccctaag 180
 aatgaagtat gaagcgagga caaaaaata aaaaatatta agccaaattt tgcaaaatca 240
 ctatagacta agcaacatac aacaaaacct ttacaaagag tagccgtccc ttaaaacatg 300
 ttacctggca agattttctg aaatctccct tcacaataaa tgtctccaag cactcaacat 360
 aggatgttgc ataaaatgta caatctcaac agtaactcac cctaatacgt gaacaataat 420
 agaagcaagc tacccaaca aatccaaaag ggggtggctgc tcagcgtgtg acttggtatg 480
 agaggaacca gtggttgaag cagatgccct t 511

<210> 31231
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h09d1

<400> 31231

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 aaatgcctaa caggggtttac atttaaccaa aaatacccggt gctgggttcca aatttcatca 120
 actcccatga cctgaaaaca gaatgtgtga aacggacaag ttgagatccc aactgcggat 180
 ttttgataa ccaaaaaata acaaaatgcc tgaattcatt ttagggatat gtagagccca 240
 tatgatatga ggactgcaac ctctgctaac taataacatt tattaatcca acaaaacaag 300
 gggaaaaaga aaaaaaaagt aagccacttt tgtgtgagag ttaaaaaagt attgaagggg 360
 tcctgggtga gctgttcttt ttgctgtgtt gttgg 395

<210> 31232
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400068h12d1

<400> 31232

gagaactcca ccattcacgc aacctgtttt aatgaaagga atatctgtca tgaaaaatct 60
 agatgaagag aaaatgatca gatgatgcgg cggcacaggg taatcccatc acccacgggg 120
 agctggcaaa tctcgatcct cgaatcttga gccagatact tgttgagctc catcacatgg 180
 ccgcgaagag gcttaatgta atccatcaat ggtgcatcgg gtggtgcagc cacagatcca 240
 gcccataggg tgttatcgta tccgatcagt cctccaatct tcacaagctc tagtaccctc 300
 ttgtggtagc tcaagtaatt gtccttatca gcatccacga aaacgaaatc caacgacccc 360
 tttttatatt catctttaag catctcgctc agaaacggaa gagcaggtcc ttctctgaaa 420
 tcaatcttgt gagccactcc agctttttga attattggca atcctaactc atagtattcg 480
 cgattcacat ccaaagccaa gatctttcca tcaggggg 518

<210> 31233
 <211> 332

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400069b01d1

<400> 31233

aaaaaaagaa agccctgcaa aagtaataca aattttgggc ttagttctcc aacaaatctt 60
tttgtttaac aggggaaact tgggcctttt tccaccaaac aaaatattct tgattaaggg 120
tccccaaaac tgaaggcaac ttttagatta actaaaagggt cccctttgaa aaaaaataga 180
aaacaaattt ttaataattt ttcaggggtt tgccaatag gatcacaagg tacagccccg 240
ggcaattttt actccccctt gtccataaaa tagcaatccc gggattcaaa aacatttggt 300
ttttaagaat tttttacca ccttgggttt tt 332

<210> 31234
<211> 368
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400069b03d1

<400> 31234

aattaaagg gattggatta atcatacctc aaaaaccgga atttaaaaca gaagttcccc 60
ctgtttccca acaaagataa tagattgtga gatacaccac tcataaaagc tttctcaaag 120
ggggaaaatt aacccaatca cagcacaaga aaccgcatt acccaatact tttaaatatg 180
tccttagctg gagagcaatc acattaatct tcctttttaga gcccttccaa atctccggcc 240
cccggtttta ataaaggatc tttgggttgg ccggattttc aaattgccga agaataataa 300
aatttgagat tttatcccaa attttttttg ccttttgaac agctcctttg atacctttgg 360
gggggtca 368

<210> 31235
<211> 330
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400069c01d1

<400> 31235

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tactcaaagc ccacctgatt tctctatttt cttccaactt tataattgag caagggcttc 120
 aaaggattcg tttcacactc ataccttggt tattctacaa accaaaacac aaagataacg 180
 tactaaataa gtgatagggtg atgctgattt ccaattgtcc acaacttata tagtagcatc 240
 aagtccaagt tctatggccc tgagtttcaa tgatttcaag caacgaatgg cttcatcaag 300
 aagctcgatt ggggtgcttgt cctttcacca 330

<210> 31236
 <211> 389
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069d03d1

<400> 31236

aagcgagtaa aagtggacta gtgattaatt gattcgaaaa aatatactga ctacaattgc 60
 tatagctaca tcaataagcc atcccatata ccgactacaa ttgttacata caaaacatga 120
 attcctccac ctggccttcc acatgaaaaa tctaatttgc taattgctat atagctacat 180
 cttgtcaatt tggcattgat ttatctagtc atagaaatgc catgacctac ggatatgtaa 240
 ctggaaaaca aaaaaaaaaa aacaaatgtg caaggaatgc ttagcagcac ctacaccagt 300
 ctctcattt gaagggcttc tatggcgatg gggtcccatt tgcaacacca tcaccattat 360
 caaccatggt aacatcttcc atgctgttt 389

<210> 31237
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069d09d1

<400> 31237

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 ccttgcttct tcgtacttgg caggcaaac attttccatg gcttccaact cttcaggctg 120
 taaagtgaca tccactttat ctgtcttctg acctctaagc aaatcaaccc ttttagcacc 180
 tgatttgtcc tgtgtgccag tgccaaccac ataagtgtgt gtggttccaa gcaaagttcc 240
 aggggcaatt ttttcttctt tctcttcaag tacttgataa agaggcctct caggctcctt 300

cctctgttgc ttccggaggt cgataacatc aggtgtttcc actccagcgg gagtgcttga 360
cagactatca acagactgaa taccagcttc aagttcctc 399

<210> 31238
<211> 454
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400069e04d1

<400> 31238

caaaggctca aacctgagat gttataaaaa catccggggc taaatcaaaa tattttttct 60
ttttggccta aaaacatatc ggttacaaaa catagagaac aagactagaa taagttcaac 120
tgcctatact ccgaacaaaa atgacttaac ctttcaaadc atcagctatg acacaatgaa 180
gtcgtgctgg aatccttgag aatgcagcat cttttcaact cctttgcctt tgagcttcat 240
ctattttctt tttccgttgt ttaatgcgat cagtctgagc ttccttcagt ttcttagata 300
tcttcatggc ttcagctagc ttcctttttt tacgtgacat cataacttta ctcatgtcat 360
catcaacatt ttcttgaaca ctggcagttg attcaccagt ctgtaccact ccagtagatg 420
tttctttaga acctgctgaa gtatatgtaa cacc 454

<210> 31239
<211> 344
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400069e08d1

<400> 31239

aaacacaccc taattggcct ttattttttaa tcataatgat aacatataat catccctttc 60
atgaaacgtt gcacctaatt ttgaaataat tcgaccggac aaaacaaaaa tttccaaagg 120
ggggggggcca gacaaaacag aaaacttaga acccattccc caacatagtt ttataaaaact 180
ttaacttaaa aaaaccccat ttattaataa attaattatc tcccttctag gaaaataagg 240
gacggggggg cacaacgacg tgggtccaaca ttcacaggtc attcatgttg gcccaactcaa 300
cacccatgtt ggccaaccct aaaaaccggt caagttgttt cagg 344

<210> 31240
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069e09d1

<400> 31240

acaagaaaaa tccaatcaat aacatgtgta cgcacaatga gattcactat caatcaccaa 60
 ttcttcatgt ataataaaac gagtggacat taagattttc tgtaactgca taatgcatac 120
 tggcatccat aataccatga atacaaattc tttcatagaa agggggggaa ttaactaccc 180
 tgaatgttca caaaacctaa ctaagtagat ctttgaatgc agagaagcaa gtttcagtct 240
 gcacgagagc cactgctact tgcagaagat ttcttaccgc tataacttctg cttccccaag 300
 ctgaagggga tatatttgta tttcatcatg tgtgcaactt ggcggtcat cgctaggaca 360
 atgtgaacaa accagtaact gagtcttata ggccaaaaga caggaacatt atacagggaa 420
 aataaagtca tcacaaatgc 440

<210> 31241
 <211> 268
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069e12d1

<400> 31241

ataaaaacaa gtgccaaaga aaccgccgat ttattgtacc tttgggtag aaccaacaca 60
 aaagggggaa gcgcttatta tgtttcaacc cttcaaaat gtgtaccact ttttccgatc 120
 caaaatgtta tatggccacc cactagagcg tgtaactcct tcacaaagac taggctagag 180
 aagtaattaa acttcattgt attgtgagct ctactgagtg caacccttac gcttttgggc 240
 tccataccct gaaaacattg gcccttgt 268

<210> 31242
 <211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069f01d1

<400> 31242

aataataaaa gcagtggtta taataataat aaattttaaa gatttgctct acatactaca 60
acaaaatagc tccacacctg ctgagctaataat aatgccaaag caaactacac ccgtacatat 120
tcacgataaa cctatccaaa cctcaggggtt tacactcata caatcatgca tatcggtaca 180
atattatggt tcgtgctttt gacaacactt catttgtaag gattgggaag tgaataaagc 240
aacaaaaaac ataaatctac gtcaacaagt gcaactcagg acggatagga agctacagct 300
taggtaaagg attgaacggc agaagacgtg gtaactaac ttgataagag accgactatg 360
acagcactgt tgtacgtgct tggttctgtt tgcattggaat tgttcctgga atcaatgaaa 420
gtctcattta agaaggggtcc accaacaagt gctccagtag ctacattggg attaggatca 480
gatgactcaa gccactggaa gccatccttg cagccagttt ttgcatcagc aggaattgaa 540
gcacccctat gatgca 556

<210> 31243
<211> 435
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400069f03d1
<400> 31243

agaaaaactg aaattccatt actagtaacc aaaagtgaca tttagattga agtcaaggaa 60
ggaagactcc tctcaacaat catccactca atcccaaatg tcaaacaaaa acaaccaaca 120
actcaacacc ttaacctaaa ccataacca acgattccta cctgactaac cacaacacag 180
taaaacaaga cacacaactg agcttagtaa ctcaaccttg actcacacac acaatgcttg 240
tggtatcatga actacattgt ttattcttaa cattatcttc aattattcaa taagtctcca 300
ttttatttgc actcgaatat ttatctatac aaaacttaga tagagtacct caaggggttac 360
cactattact ctctgatcag aacaaaaatt tcaccttgat aattagtaaa actccaattg 420
tcgaggtgaa acttc 435

<210> 31244
<211> 429
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400069f04d1

<400> 31244

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aaaaaaacac ggaaccccg ctttttttta cgggtttttt tgggggacaa aaacccaaat   60
tcacatcccc ctttttgggg ggggtttttt ccccccccc gggggggggg ttaaaaaaac  120
cttttttttt ctggaacaac cccttttggg ccccccccc cccaatttta aaatgaaagg  180
ccgcgcgggc ggggtaaaca aaaccccatc tggggccctt tgtatttggg ggaatgggaa  240
aaaaaatttg gcccgcaaag cacacaaaaa agaaaatttg ggggaaaaaa gggttttttc  300
caaaacaaaa acctcttttt tggccggggc ccacccaaaa aagggggggc gggccctttt  360
tttcttgggg ggccgaaaac ggggtgggtt ataaagaatt tgccgttccc tggggggggg  420
ggctcccccc                                     429

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<210> 31245

<211> 351

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400069f09d1

<400> 31245

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acaaaaaac cttttttaga aggccccaac cctgggtgtt aaaaactttg acaggaaccg   60
ggcatgattc aaactgggtg actccccaaa ccctgggggg gggaaaccgc cccattttt  120
ttttacaaa atttcttttt ttggggattt tttttgcaa acacatggga aatacctttt  180
catacatatt ccttaagggc cccaagggc ctccgggcaa aggcaattag gggcaaactt  240
ggccttccca ttatgctcag gggggggaac atccatgtta acaggctcga ggtgggtttt  300
tttaagtctt tcttaaacac cataattttt tcccttgggg caattagttt t          351

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<210> 31246

<211> 62

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400069f10a1

<400> 31246

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aaaaaaaaa aaaaaaatta aaaaaattta aaaaaaaaa aaaaaaaaaa aaaaaaaaaa   60
ag                                                62

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<210> 31247
 <211> 448
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069f12d1

<400> 31247

accaaagtaa acgcttagtc tcaaaaatca gtaaaagcag agttcaagaa gccatcgggg 60
 catggcattt ctttacatat attgaagaaa actagtagaa tggcaaataag taaaagctgt 120
 agaaccaagc aaattcaatt gctacttgta actagtccta ctagtttggtc aaccatatgg 180
 tgaaatcaag aagatttgca attgctttgg tctacctagc aatgcattca gctaccgaag 240
 aagaaagggg atatggcgcc ggagtttagtg attgatgatg gaaaatgcga gtggaggaat 300
 gtcattgttg gaaaacgaat ttgagtatcc gcagctgatg gtattattgt tgaaggggaat 360
 cctgatgatg ctgcagtaga gaaggggtgga gcaagagatg ccctgccata aggaccttgg 420
 acttgccatg cccaatttgg cacgggag 448

<210> 31248
 <211> 343
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069g01d1

<400> 31248

aaaaaaaa aaaccccccc cccgcttggg gcttttattt ttttggggga accaaaattt 60
 ttttttaagg tcccccggtt cacaccgggg gggaatttt taaccctttt tggggggaac 120
 gggggccccc cttttaaaac cccccccctt tttttggggg ggggggactc ggtctccctt 180
 ttttttcaa accgtggggg ttttgggggg gcccaaaaaa aaaatttttt taaaaccttt 240
 tgttttttaa accccaccgg gcccgggggc cccccccccc tgtggttgcc cgggcaaaaa 300
 tttgaggggg gccccgcctt gttttggccc cccccccccc ccc 343

<210> 31249
 <211> 388
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400069g04d1

<400> 31249

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aattcaaaaa catttattat ttattggttt ctaccatctc tgcattggcta aatgctataa 60
ataccctggc tttttggaaa aatcaaataa tgccattcct actgattgca aaaaaattgg 120
cagtaatttt gataataaaa accaatctgt tattatacac ccacattatt gccacattta 180
tgactagccc gtctttatcc ttaatgctct catattgcc aatcacaaat aagtaattaa 240
gccgcaactt tcttgatgg gactgaattg acaatggtag caaactcagg accctttaat 300
gaagcccctc caacgagaaa tccatcaata tcttcttgct ttgccagttc agcactgggtg 360
cctccattta cagaccctcc ataaataa 388
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<210> 31250

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400069h02d1

<400> 31250

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tctttgcaat aaaagtgccg tttaaacagg gctaattccat acccttcac acgaaactga 120
aatgacaaac attgattcaa aacctgcctt aaaattaaca taatatcaca gaaagatcga 180
gctatagtgt acaaaactga taacacactc cttaaagtga ctcaatctaa ctaaagaata 240
gcctgggact tgtaaggat cactccctcg tacttcacct ggaaccactt catagcatcc 300
tcctttgtga ctcggtgctg aattccaaca cgggacttgc atcttcggcg acgtccaaca 360
cgatagccag gtcgctccag aacaacaaag aaatccattc cataaatacc agttgaagga 420
tcatacttga ttcccaaata aatatgctcc tgaataccaa agc 463
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<210> 31251

<211> 468

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070a01d1

<400> 31251

caaaggatat tttattactt tcaatctggt cttacataat aattttaatg gaaaaacaat 60
 tattttcttt tggcagaatg tagcaatata ctctctgaca catttttgcg tgtccacaat 120
 tctttccttt gtatcatagt aaataaaatg tgtacgggct gaatcttcat tgatacaagc 180
 cctgtaatac atggagcaat attcagcaca atagcctgac ttgactatgt acagtatatt 240
 tgcacccaaa ttctcttata tacatctttg gttttggcca ggcgatgcat gattaggcct 300
 tggaaatctt ttgagggtata cttgaacaac cagaagacat ggagcaccaa tgatttaact 360
 tcaaatatth tttaatactg aacctaataa gatctgaacc acacgtatth ggtaaattgc 420
 tgcacatag ggggctaacc gcataagact cacttgacag cttttttg 468

<210> 31252
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070a02d1
 <400> 31252

gcttactaag caattattta gacatcaaaa ttcaaaacaa ataatttaga gcttgtaaag 60
 cagtaaacca ccttaagcac cacgaagtgc cttaaaaaac tatatataat acattgggaa 120
 cattagggct tccgatttaa acatgaacaa ccagcggata cataggaaat ccttagcagc 180
 taattaaaaa taaccagata ccgttattta gttgctggat ataatccaac tcttcacttg 240
 aaacatttag gagaatacta ctacagccat atgttgacca cctcattctt tgccatctgc 300
 tgctcgaaga gagcctagtt gaactggggc ttgagtctgc accactttgg aagaccata 360
 cactgatata ttaatacctt gcgccttctc cttctcgatc tgctcctt 408

<210> 31253
 <211> 276
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070a04d1
 <400> 31253

gctgcaaaag caattcaata accatcagag ggtgaaaaga catggagcag ggcacaaaaa 60
 caaccatcaa ctaagggaag aatgaagcac actggaacat gacggattgg agcagaaccc 120

caaggcggat gaccgtgcaa taagctaaaa ccagcagctg gtcaggctct ggattgtacc 180
 ttagacaaat aaacaaaaca cgctggatgg gacgctaact gcaataggcc gttatgtagg 240
 agggaactac cggatgactc tgattgacac agaagg 276

<210> 31254
 <211> 334
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070a06d1

<400> 31254

ctgcttcttc acattcataa ccaagagtgt atgtaatgca gaagcagctt caatcatcaa 60
 caccatcata taacccttgc ataagttcga gcggggaagc ccagattgga agatcaaaca 120
 aggcttggtt aagctgttct tctctcttaa cgcacactgt ttctgctatg tcgcataaat 180
 ttgacacatc acgaattatt gtttcttgcg cctccacctg caataggagg tcgtggagga 240
 gggagctacc ggcggaatcg gaggacgagg aagtagaagg aagagatagg gataggtttg 300
 gttggggatg ttgttgagtg gtccgatgtt gcat 334

<210> 31255
 <211> 406
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070a07d1

<400> 31255

ctgcttcttc acattcataa ccaagagtgt atgtaatgca gtagcagctt caatcatcaa 60
 caccatcata taacccttgc ataagttcga gcggcgaagc ccagattgga agatcaaaca 120
 aggtttgttt aagctgttct tctctcttaa cgcacactgt ttctgctatg tcgcataaat 180
 ttgacacatc acgaattatt gtttcttgcg cctccacctg caataggagg tcgtggagga 240
 gggagctacc ggcggaatcg gaggacgagg aagtagaagg aagagatagg gataggtttg 300
 gttgggatgt tggttgagtgt ggccgttggt gcattgagcg caaggtgttc aacaaggttt 360
 cccaaagaag aatttctttc tcgtacttag atttgagctt caatag 406

<210> 31256
 <211> 236
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070a09d1

<400> 31256

atcctatctt gtgggataaa gatcattgta tgacaaagga tggagaaaga catagaagga 60
 gacaagaaac cgccgcagct acaacaaacg gtccaaacca ggcaaaggaa aggaccccc 120
 aagggtgtgtc ccttacgaaa gaaaaaagac gtaccgagac cccaagcatg gaaaaagcca 180
 gaggcaatga cacggactgt gcccaaatga accataaaga ctgctgaccc agaggg 236

<210> 31257
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070a10d1

<400> 31257

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 accttgaatc tctgttccaa ccagagtgtg tgagtattct gtggacaacc tccacttgca 120
 acaacagtta tagatgaaac tattttgaaa gaaatgatcc aacacattcc acctgccagg 180
 gtacatcctt gattccagca ttacgtaaca gatgctaaac ctgggacttg ggggaggtct 240
 tgtgtgtctc tgttgacacg cgtagatgca tcgtaccac tacatgtgtg tctgggaaga 300
 tccaggagtg aaacttttgg atgcataga cacccttat cttcgaaaca ttgattaagg 360
 catccttcat ctcatgctca tgcgcccttg gcactctttg gagcaaaaca tctgctgaat 420
 ttttta 426

<210> 31258
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400070b01d1

<400> 31258

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 ctcatcctaaa ctaaggaaat aatttaacac actcaaacat aacggatatt attagaactc 120
 caaagccaaa gacctcacat taagcttaga ccaacagttc ataaagctca agacttcaca 180
 tcacagtaat agtctaaaca cactggaagg aagggtataat acgtcaaccc gttatttagt 240
 aggttaattat gggatgactt tgattcacac agcacgcact ggcattttga ttactcatca 300
 tcataactct tgtattggtg atgcttgtgg ngaagcttct ttctcccatc atcatcatct 360
 gagtcatctc catatttctt acgaccatag ccctcatgat catcatcatc agccttctc 420
 tcataggaag gcttgcgga cccctcctcc tctcctgcc ggggtggacg cccc 474

<210> 31259
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b03d1
 <400> 31259

ctgaggggac tggaaacata aaaaccaatt ttgcatttaa taaatataaa cagaaactgg 60
 ctcaaaaatc cctgggagaa aagatgctta gactattgtc ctctaactc gaggcaccta 120
 attcttggcc acaacatgaa aatcgattga aaggaaaaac caaaccaagc agaacttaca 180
 aagggtcaat accatccgcc aattgcataa aaagtctggc ttccaagggg acctaacgga 240
 gaaacttata acatactcaa cttacaaatc cattcattaa actagatata tctattaaaa 300
 acccaaagct tcaaatacca aataagtcaa ccaaacttta ctgaaatatg gcacaggact 360
 ggggtgcatga agaacttgat caccatccag ctggacttga cccaacttta gaagcacttc 420
 cgat 424

<210> 31260
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b04d1
 <400> 31260

aaaaaaggcc actttcaatt tgggtggata acaggggaag aaccaggaa gtaggagtgt 60

tgagctcatt catttcagca ggggatacct tcagcagggg aacaaataca gaatcactat 120
 tcctattgaa aatatgagag aatctgcatg tttattggcc aactggattc ggggcagtct 180
 cctattcctt gccctcacac agttagggca tttgtaacca ttgaataaag atcggacagt 240
 gcggatctca aatacgtgtg ttatgtctaa tttactgaga tagatggccg atctttatgt 300
 aatgggtcca agttagtaat tgagtgaata tgtggaaaag acattgcaga tgatcctcat 360
 tatttggggg tcttgaaagg agaaaagtgg agaaaaaaa gaaggctatc tgagtctaata 420
 tccttgagga ggtctcaaag cttctcagct tattttttca ggtactatt 469

<210> 31261
 <211> 343
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b08d1
 <400> 31261

agtgggaattg agactcgaat tatattagaa ttgggttggt ttggtgtcgt cctccatata 60
 accagttttc cttaatggtg aaaggagaca agaaaataaa agataaacia actttgttat 120
 gaggtacaaa agaacatggt cttaagatgc taaaagataa attaattggct gttgagtttt 180
 cactagtttt tagacatttc catctgtttt cttttcacaa gttttcggtt ccatagcttt 240
 gcaataaagg aacattctca gtagctggtg attcccagta atcaacttct tcctctatct 300
 cctctgttgc ttgccccac aacacagcat aaaaagccaa atg 343

<210> 31262
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070b09d1
 <400> 31262

agtgggaattg agactcgaat tatattagaa ttgggttggt ttggtgtcgt cctccatata 60
 accagttttc cttaatggtg aaaggagact agaaaataaa agataaacia actttgttat 120
 gaggtacaaa agaacatggt cttaagatgc taaaagataa attaattggct gttgagtttt 180
 cactagctta tagacatttc catctgtttt cttttcacaa gttttcggtt ccatagcttt 240

gcaataaagg aacatttctca gtagctggtg attccgagta atcaacttct tcctctatct 300
 cctctgttgc tttgccccac aacacagcat aaaagccaaa tgatactatt gccgctccaa 360
 ctatactttc aacatgaaga gagtcaccaa cgaagatgat caccagggc ataagaaaaa 420
 aaca 424

<210> 31263
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070b11d1

<400> 31263

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
 gtgcccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
 taaagcgcgt ctctacgcga agttatattt tattctctgc tacgaggaat taagctatgc 180
 agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
 gtcaatgttc catatctctc gggcatattc atgaatcgtg cggtcactgc taaacttgta 300
 tgaacctgct gtgttcaata ttgacattct tgtccattta gtttggtcac ggtatgcttc 360
 atcaaccttc tcttggcatt ctatgtagct ggggaagtct ttccctacaa ggaaataa 418

<210> 31264
 <211> 416
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070b12d1

<400> 31264

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
 gtacccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
 taaagcgcgt ctctacgcga agttatattt tattctctgc tacgaggaat taagctatgc 180
 agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
 ttcaatgttc catatctctc gggcatattc atgaatcgtg cggtcactgc taaacttgta 300
 tgaacctgct gtgttcaata ttgacattct tgtccattta gtttggtcac ggtatgcttc 360

atcaaccttc tcttggcatt ctatgtagct ggggaagtct ttcctacaa ggaaat 416

<210> 31265
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c01d1

<400> 31265

aatattagag agtttgagat cattcagaaa gttatttagt atttcacttg gacaactcaa 60
 ccactgtaga tatcaccac aagtcacaat gtgggggatac cattgtacaa gtccatgaaa 120
 atggaagaat tttattcttt aggacagaga cagactacca aggttttcat tgcgcactta 180
 agacttcgat ttcaaattcc aagacagagt tgggccgcat tccccaagca ggaaagccac 240
 cagcaccata agcataatcc ggagagcacc ggagacgagc aacttcacca atttgcattg 300
 caagcacacc ttcattccat cctttgataa cagaaccttg gccgattttg aaagtgaatg 360
 ggttctggcc aggatccttt gtgctccaga atttctgaga aaggtcaccg ttcttcccga 420
 aaccagtga gtgaacggtt acgttctgac cgggaattg 459

<210> 31266
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c02d1

<400> 31266

cggagggtac tgcaaacata aaaaccaatt ttgcatataa taaatataaa cagaaactga 60
 ctcaaaaatc cctgggagaa aagatgctta gactatcgtc ctcttaactc gaggcaccta 120
 attcttggcc acaacatgaa aatcgaataa aaggaaaaac caaaccaagc agaactaca 180
 aaggccaat accatccgcc aattgcataa aaagtctggc ttccaagggg acctaacggg 240
 gaaacttata acatactcaa cttacaaatc cattcattaa actagatata tctattaaaa 300
 acccaaagct tcaaatacca aataagtcaa ccaaacttta ctgaaatatg gcacaggact 360
 ggttgcatga agaacttgat caccatccag cttgacttga cccaacttta gaagcacttc 420
 cgatga 426

<210> 31267
 <211> 418
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c03d1

<400> 31267

cccttgaaag gtgtaattgc ttcttcagaa atagatttat acaaaggtag ttgcaatata 60
 tatttgccaa actaaaaatg taaagaccct tcttcccaat cctaggtagt ggcccaattg 120
 tatttataaa ggcgggacaa aatatgtata tacaagtcca atcatatagc ataattgtaac 180
 aataatcata ctttgggtctt tactggggca cattacagga attattatgc actgaaaccc 240
 ctttgcagag aactccaagg attggaagga atagagacac aagcttgtgc agaggcctca 300
 gccatttgcct cattctttat ccctacattg cagatgtttg caaaggacct catatgtttc 360
 atgccatact gagacaagga tccacaatgt gtctcaaaag tcctcaccat gggttttaa 418

<210> 31268
 <211> 300
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c05d1

<400> 31268

aaaaaatggc cactttcaat ttgggtgtat aacacgggaa aaaccctgga agtcggagtg 60
 gtgagctcat tcatttcagc aggggattcc ttcacctggg ggacaaatac agaataccta 120
 ttctatgga aaatctgaga aaatccgcat gtttattgtc caactggatt gggggcagtc 180
 ttctattgct tgccctcaca cagctagtgc attggaaacc attggataaa gatcggacag 240
 cccgatctg aaaaccccggt tctatgtcta atttactgag atagatgtcc gatctttatg 300

<210> 31269
 <211> 335
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c08d1

<400> 31269

gaatccaaaa caatttgata tttattacta taagacaggg ggtggattac ctccgccgaa 60
 ttccccttaa agcatatata ttacagaact gcaagcttat tttgactatg aacgcaccct 120
 ggaagagcgt atctacgcga aaatctatct gattctctgc tccccggaag aaagccatgc 180
 aatgatcatc ccagccacgt ggcactgggt cgatatactc cactatggca ctccggactgg 240
 ttcaatgatc catactctct cggccatatg agagacaccc gcggcaactg ctaaaataga 300
 ctgaccctgg tgtgtagaat attgacatgg atata 335

<210> 31270
 <211> 201
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c09d1

<400> 31270

agtgaattg agactcgtat ttttttataa aagatatatg aaggatgact ttattctatc 60
 acacttttat tttattggtg cttggaaaca ctcatcttat ttgacaccaa acatgggggg 120
 ggagatctat gggagcataa aattcttagg catcccgtga gcttcttggc tgtggccgca 180
 aaactctttc cctgacggaa a 201

<210> 31271
 <211> 504
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070c11d1

<400> 31271

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
 gtacccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
 taaagcgcgt ctctacgcga agttatattt tattctctgc tacgaggaat taagctatgc 180
 agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
 ttcaatgttc catatctctc gggcatattc atgaatcggg cggtcactgc taaacttgta 300
 tgaacctgct gtgttcaata ttgacattct tgtccattta gtttggtcac ggtatgcttc 360
 atcaaccttc tcttggcatt ctatgtagct ggggaagtct ttccctacaa ggaaataatc 420

tgctcgacca aaaccttcac ttccttctaa ggatcccac aattcgatc agttggtaag 480
atccaaaaac gccacttggtg acaa 504

<210> 31272
<211> 270
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070c12d1

<400> 31272

gaagccaaaa caatttgata tttattatta taagacaaag gtttgattta caccgacgaa 60
gtacccataa aacatatata ttacagaact gcaagcttat tttgactatg agcgaccct 120
taaagcgcgt ctctacgcga agttatattt tattctctgc tacgaggaat taagctatgc 180
agtgatcatc acaaccacgt ggcaccgatt ctctatactc ctctatggca attggactgg 240
ttcaatgttc catatctctc gggcatatc 270

<210> 31273
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070d01d1

<400> 31273

atcaaacatc caatattaca acattgctag tcaaaatcaa ctcatgaatc atattctcaa 60
caggtcttat acacaagcac actgttacca gcaactgcaca aaaatacata taaatttttt 120
aatacattag ctatgctcct aggtttttaa ttgccgggac aatgcatttc tataataaag 180
tgagaccttc agacttataa aactcagaag cctgaagttt attaaaattt ggaagtataa 240
agtaaacaag agggttaagta ctaacagtca taaatccttc tctattcaca gaaacacctc 300
taaagctaga ggaccaaagc caccctcaga aactatagaa cacaacccaa ttgattttgg 360
tcagaaacac aaagttgaat ctgccctaa aatttcccat accagattca gagcaatcct 420
aaacacaatt ggaaactaat ccatcagcca acacaaaaga gactggcact cctgacacct 480
cttgtcaaca atttatgtta atccac 506

<210> 31274

<211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d03d1

<400> 31274

gcaaagtgaa aaggtatcct aaatatattg ggccaataga ggctacaact caattaaaaa 60
 ataaaaagat tttttttttg gtacaaatta aaccttttaa ataaggaata taactaaaaa 120
 aataaaggga agagatagag agacagggtt tgcttttgaa tgtaacattg tacaagataa 180
 ctaagttaga ccaaaaaatg ccaagaggca taaaccttaa gcataatagc tttgtagctt 240
 tcttcatcaa taaattaaca taggaaacct taggtaagtg acaattgtgc aaaactcctt 300
 taaccaaacc cctttgtgcc acggttgcaa attgcaatga ctaattgagc caaaatacca 360
 tgtgaaattc tgtgaagatc gtatagagaa atgtacttgg cagccaaaaa gccagccagt 420
 tcttcaactt tgatttagtt gattattgag ttgatgtgga aataagtaac ccaatact 478

<210> 31275
 <211> 438
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d04d1

<400> 31275

gaaacaagaa atcttattta ttcccataat atgcaccata tcatggccct tcccagagca 60
 cacaacacaa ttacatctat gaaaaggaaa atgtttctag tatatttctt gcatcaaaag 120
 agtctcacac cacacattaa agacagttaa acagccaaca agaggattca agggttttaa 180
 agggccttga tgatctcttc agcactggag atgggtgaact ctctccact ttcaacattc 240
 gcaaccttca ccttgaggtc ttccaccagc agagcaaacc tctttgagcg gacgccgaga 300
 cccttgtcag tgaggtaag ctcaagacca agggcattgg tgtatttggc tgcaccatca 360
 gcaaggaact taacatgctt gttctctggg aatgttttgg cccatgagtt catcacaat 420
 ggatcattca cactgata 438

<210> 31276
 <211> 426
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400070d05d1

<400> 31276

gaaacaagaa atcttatttta tttccataat atgcaccata tcatggcctt tcccagagca 60
 cacaacacaa ttacatctat gaaaaggaaa atgtttctag tatattcttg catcaaaaga 120
 gtctcacacc acacattaaa gacagttaaa cagccaacaa gaggattcaa gggttttaaa 180
 gggccttgat gatctcttca gcactggaga tgggtgaactc tcttcactt tcaacattcg 240
 caaccttcac cttgaggtct tccaccagca gagcaaactt ctttgagcgg acgccgagac 300
 ccttgtcagt gaggtcaagc tcaagaccaa gggcattggg gtatttggct gcaccatcag 360
 caaggaactt aacatgcttn gttctctggg aatgtttttg gcccatgagt tcatcacaaa 420
 tggatc 426

<210> 31277
 <211> 364
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d06d1

<400> 31277

aggaaaggaa gatccatcat agagatattt gatgaaattt gaaagataac aatcccaaca 60
 aagcggctgg cttattgtaa acttgcttca ctatatggga gtgaaaaata aattgtacat 120
 tctataataa tatcacaagc aggaaaaagc tactgcatct acaacaaaag gcaagacaat 180
 attaaaaatt aggaccttga ttcaacttat caattcacca cctcaaactt ccgcaacata 240
 tcacaatggg gtgtttcccg gatatacccc cattggcgac gctgcaactc gaaatgacaa 300
 ttctggcgga gaatgctgaa gtactccctc tctaccctct ctttaatttt tgatcgttca 360
 tcac 364

<210> 31278
 <211> 448
 <212> DNA
 <213> Glycine max.
 <223> Clone ID: jC-gmst02400070d07d1

<400> 31278

agtaaaggaa gatccatcat agagatatatt ggtgaaattt gaaagaaaac aatcccaaca 60
aagcgggtgg cttattgtaa acttgcttca ctatatggga gtgaaaaatc aattgcccac 120
tctataatca tatcacaagc aggaaaaagc tactgtgtct acaacaaaag gcgagacaat 180
gttaaaaatt aggaccttga ttcaacttat caattcacca cctcaaactt gcgcaacata 240
tgacaatggg gtgtttcccg gatatacccc cattggcgac gctgcaactc gaaatgacaa 300
ttctggcgga gaatgctgaa gtactccctc tctaccctct cttcaatttt tgatcgatca 360
tcactcccca acggatactc ctgaacaaaag tttgtagact tgacataata ggtaacaccc 420
ttgggtgtgg taaaccgatg ttcataag 448

<210> 31279

<211> 379

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070d08d1

<400> 31279

atcgaaaaaa tatgaaggat tactttattc tctcacactt ttattttatt ttgcttcta 60
acatctcatt ttatttgaca caaaatatgg ggggggagat atatggagga taaaaatcat 120
tgagatccct tgagcttctt tgcaatgcc gcaaaggact ttcctgatg gaaagcttgg 180
gccaatcca attcactagg ctgccttgag ccatctccag cataagttcc tgcaccatat 240
ggggagccac ctttcacctt ctccaactca aacatgccac cgccaaatgt gtatccaatg 300
gggacaaaaga tcaatccatg gggaacaagc tgagtaatag atgtcaacgg ggtagtttct 360
tggcctcctc cttgagaac 379

<210> 31280

<211> 343

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070d10d1

<400> 31280

gaagccaaaa caatttgata tttattacta taagacaaag gtttgagttc ctccgccgaa 60

gtacccataa aaaatatata ttacagaact ggatgcttat ttgactatg aacgcaccct 120
 taaagcgcgt ttcttcagcg aagatatatt ttattctctg ctaccaggaa gaaagccatg 180
 cagtgatcat cacagcctgg tggcgccggg aggatatact cctctatggc aggaggaccg 240
 gttcaatggt ccatatctct cgggcggtatt aatgaatcgc gcggacactg ataaacttgt 300
 atgaacctgc tgtggagaat attgacattc tcgtccattt agt 343

<210> 31281
 <211> 466
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070d11d1

<400> 31281

aaatccacaa agccctaaaa atcattacaa tttgatagca gttcaggtac ataaacagag 60
 tttctcaca ggaacgagca cgatcgggat cgatatataa tagtaatagt aatatacaca 120
 atcatagtaa aacaaaagga aaaagaagaa aaaggagaac tcaccgaaag aggcgctgg 180
 attgagagcg cgtggttgtc agcgcttggg ggagttgtta tcgtaatcga tgatctcgga 240
 atcggtgacg gatctggagt gctggacgat ggagcggccg atagagttga tccaatcctc 300
 cttctccttc tcggagtcgg cgatgaagta catggtgtcg gagcgctgg agagctcgaa 360
 ggcgttgggc ttgttgagga tgtcttcggc gcctttgacg gtgaggcacg tggcgacggg 420
 gaccacgccg cgtggacgag acgcacgcgt gacggcggag tccttg 466

<210> 31282
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070e03d1

<400> 31282

cagaagaaaa cataaacatc aagataataa attgcttgtc ccgataaagt aatagtacat 60
 gtcaacatgg atgaaataaa atgtgaatac acagtgccca gcatggtagg ggaaatacac 120
 ctacatagag gtaagtagca ctattccaaa cccaaaggga ttccaccag ttccaatagt 180
 caccaaaatt cataccataa aaatcttcaa atgcaccttt cagtaaaaca aatgcaactg 240

gaggaacaca ataaaaccta aagcaatatt gcaagaggcc cttagtaagg tactccagct 300
 cctagcttga atatcaagtt tcaatgggtct agccatcaga caaatcgga caataagtaa 360
 agccccaatc tctgctgtag caaagttaat gacagacatg agagacaaac cgatgaatgc 420
 agttgatata gttacagact ttaagctagc ccacttgttt ttctcatgta gagatgcagc 480
 agcttcaaaa attgggggac c 501

<210> 31283
 <211> 420
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070e05d1

<400> 31283

gaaacaagaa atcttattta ttccataat atgcaccata tcatggcct tcccagagca 60
 cacaacacaa ttacatctat gaaaaggaaa atgtttctag tatattcttg catcaaaaga 120
 gtctcacacc acacattaaa gacagttaaa cagccaacaa gaggattcaa gggttttaaa 180
 gggccttgat gatctcttca gcaactggaga tggatgaactc ttctccactt tcaacattcg 240
 caaccttcac cttgaggtct tccaccagca gagcaaacct ctttgagcgg acgccgagac 300
 ccttgtcagt gaggtcaagc tcaagaccaa aggcatgggt gtatttgggt gcaccatcag 360
 caaggaactt aacatgctcg ttctctggga atgttttggc ccatgagttc atcacaatg 420

<210> 31284
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070e08d1

<400> 31284

ggacacaaat aaattataac aagtaatgca ttcaaagggt cacaatatca atcaaggaac 60
 taatcatgtc ataatttaca tccattcaat ggatgaagac aatgagattc acatggattt 120
 gcaaatgaaa aggactccaa atacataaat aacaactgat accagggtgc gcatacacia 180
 acaagagcct aacccttgt attgaaagg atggctcgaa tgactatgtg gggatgcaca 240
 acatccaggg caacttcaat gaaaggttca acccacaataa ttcatgggtt atcccatgca 300

002220"ETTES60

tgggctctgt tgtaaaggat ggcagctgcg aaactcctag ctgggataat gacaattcct 360

gggaaggga tggtacccgg gtggacctag aacacatcct atccgatggg aagtgga 417

<210> 31285
<211> 418
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070e09d1

<400> 31285

gtaaacaat aaaataaac aagtaatcca ttcagagtgt cacaaatata atcaaggaac 60

taatcatgtc ataatttaca tccatacaat ggattaaaac aaaaagattc acatgaattt 120

ccaaatgaag aaggactcca gatacataaa taacaactaa tacaagcaag cacatacaaa 180

aacaagagcc taagcccttg tcttgaaagg gatggctcgg atgactatct ggtgatacac 240

agcagcaagg gcagctccaa tgaaagggtcc aaccagaaa atccattggt catcccatgc 300

atggtctctg ttgtagatga tggcagctcc gagactccta gctgggttaa tgccagttcc 360

tgtgatggga atggtagcca agtggaccaa gaacacagca aatccgtggg aagtggag 418

<210> 31286
<211> 322
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070e10d1

<400> 31286

acaaattaaa tttaacaagc catccattca gagtgggaca aataccatca agggactaac 60

catgtaataa attacatcca tacaatggct cataacataa acaccacat tattgtgcaa 120

agggtgaaag acccccacat acacttgtaa caactcatac cagcaagcac attccaaaac 180

aagagcctaa ccccttgtct tgaaagggat ggctcagatc actatccggt gatacacaac 240

accagggca agtccaatga aagggtccaga gccacaaaat ccattgggta tcccatgcat 300

agtctatggt gtagaggatg gc 322

<210> 31287
<211> 389

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070e11d1

<400> 31287

gaccatatca aattattaat atctcaaatt attgtaatat tctgattcac aacaatagat 60
tgggaaagaa agaaatgaaa agaaaaatgt tcctcatggt gtatccgaaa caaccacta 120
ggatccaata tggatacatg gctaacaatgt acatttgtcc actgcctttg ccctttgagt 180
ggtggttgga aaagaatatg tctaattata cattttcact ttcaggatga ccattgatca 240
ggtcaaggga tgaaagtatg tagtcatgga cttccggaac ctttgtttgt attgatcagg 300
agaaactttg gggggagcag gatttttttg accctcaagt atccctgctg ccttcacca 360
tgtctccaca tgcttggtgcc atgtgtatt 389

<210> 31288
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070f01d1

<400> 31288

acataaaagg aggacaattt tggtgttata attttaaacc attaaagaca ggtgtatcac 60
ttcattttat ggaagaatat ccaaagccta atattttcag aataaacaga ttacacattg 120
ccaaaattaa aataaaaata aaatacaccc attacaacaa aacagcaata ttaaacaagt 180
gcagcagagc tcagcgggat aagtgtctc ttaactcttt ctacagctgc ctgtagggta 240
gtaagggatt ctgcataaga gatgcggatg caagtgtcat ctccaaatgc actccctggc 300
accagggcta cctggcccac atccagtaga tatcgacaga gggactcaga atcctcaatt 360
ttaccgaatc cttcagcttc tcttcataa tagaagctga aatcaaggaa tagataaaat 420
gtccctggg gttcagatat cttgacacca tctatttttc taaaactttt t 471

<210> 31289
<211> 401
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070f02d1

<400> 31289

aagggtgaac attaactcat agagtttgag caagcacagt gtcaaggact agaaaatcat 60
aatgggtctt tttgaagtct gctgggttatt caatcatata tccttttgac aaccttttga 120
ttgtcacaga agccctatct tatctatgat gattagtcag cagtccaact ctgctcaaca 180
atctcacgta ctcttctgtt gtattcacgc ttgttttcac tgaacatccg agcagcttca 240
gaatttgctg gtgaatttgg gtttgatca cacagcaatg actggattga ggtaagaatt 300
gcagctacgt cataaatagg gctccactga ttctgtaaaa tgtccaagca tatactgcca 360
tccgataaat gttaggatga aacattcgag aaacaaaacg c 401

<210> 31290

<211> 437

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070f04d1

<400> 31290

aaaattaaac catatatttt tattcattat tttttacaaa aatacagcat agaaaactca 60
aataacagaa cagaaccccc cccccccca aaaaaattt attaaatatg aaacaagatc 120
atatacccc atctgtgcca gataaataaa aaaaattata tataatacag atattatata 180
aaaactctca gagatttttt ttatcctgcc acaagttaa ttatatattt ctttatagga 240
aagcccatth cctgttcaag agaaaaggaa tgagagattt gaggtatgtc attattgcct 300
tgtcttctgc aaccttggtc caatcatctt gagctcaaatt ttcttgatta cccagcagt 360
gtccctcatt gtgggtgtcc atcacataag gaaattttgt ctgggtgact tgtgttgggg 420
tgacgagtat tttacat 437

<210> 31291

<211> 489

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070f05d1

<400> 31291

aaaattaaac catatatttt tattcattat tttttacaaa aatacagcat agaaaactca 60

aataacagaa cagaaccccc cccccccca aaaaaattt attaaatatg aaacaagatc 120
atatgcccc atctgtgcca gataaataaa aaaaattata tataatacag atattatata 180
aaaactctca gagatttttt ttatcctgcc acaagttaaa ttatatattt ctttatagga 240
aagcccatth cctgttcaag agaaaaggaa tgagagattt gaggtatgtc attattgcct 300
tgtcttctgc aaccttggtc caatcatctt gagctcaaat ttcttgatta cccagcagt 360
gtccctcatt gtgggtgtcca tcacataagg aattttgttc tgggtgactt gtgttggtgt 420
gacgagtatt ttacatgttt ctctcctttc tgatatgggt ccatgatagt ggaaagtatt 480
tgatcctac 489

<210> 31292
<211> 358
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400070f06d1
<400> 31292

gacataaaaa actaatgagt tgaaaagtgt ttatatgcac acatcccata gctggcaggt 60
agcacaaaacc ggatctaccc aactgaaaa aaagaggcca ataaaaaat tcggaaaaca 120
gacaaacaac aaatacaaaa cctataataa aaaaaagtac acagtggcct cctacaaggg 180
gaagatcgga ttttaaaatt gggcctggcc agagggttaa aaaataacaa tttaaagttt 240
cggggcatat ttgcatgggg tgtttggggg ggatactttt acaaatttgg tatgccaagc 300
ccacttgcat tccatgctta gaaagctgaa actcggcctt tattgaaagt ctttgttt 358

<210> 31293
<211> 487
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400070f07d1
<400> 31293

aagaataatt tttgtatcac gttgaattga tcatgtaaaa aattacaaat gaacatagaa 60
gaaacaaaat agaaggaggg gaggaggaga agcacacacg gagtaagtaa gtgacatgaa 120
acaaataata gatatcgtaa tggcaacgct caaaaaacta ccagcaaaga acggtggaat 180

gaatggcctt aggccttctc ccacttgagg ggcttgacca cttcccatgt gaagtcaggg 240
 tcctctctgc caaagtgtcc ataagcagca gtcttcaaga acctgttatt cccaccctc 300
 ttgagatcaa ggttgatgga gatcataccg ggcctgaaat caaagttctc cttcacaatg 360
 ttgagaatct ccttatatgg atcttcccgg tgccataggt gtcaacaaag acagacaaag 420
 gcttcggcac accaatggca taagacactt gcacaatgca ctttctggct agtccacttg 480
 ccacaat 487

<210> 31294
 <211> 397
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070f08d1

<400> 31294

gttaacaaat aaaataaaac aagccatcca ttcagagggg aacaaatata atcaaggaac 60
 taatcatgtc ataataataca tgcatagaat ggaataaaac agaaagattc aactgaatt 120
 ttgcaaagga agaataactcc ggatacatta gtgacaacta ataccagcaa gcacatacaa 180
 aaacatgagc ctaagtcttt gtgttgaaag ggatgggtgg gatgactatc tgggtgatact 240
 cagcacctag ggctgctcca atgaaaggtc caaccagaa aaaccattgg tcatcccatg 300
 catggcctat gttgtatgatg atggcagcta ttagactcct agctggggta atgccagttt 360
 ctgtgatggg aatgggtattc aagtggacca agaacac 397

<210> 31295
 <211> 363
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070f09d1

<400> 31295

aactagccaa tagcttttggg aggatcttacg ctgtgccatt gataccttat gttatacaaa 60
 ttatttcatg tattacacat gctgtaagca acgaactttt ggggaatggg gcagatacag 120
 gttaaaactt gtgatgaagc attccaacaa aattactaga caatataagc aaaactatat 180
 gtggaagaaa ctaggagtga ccccttacac ctgcttacct ttacacctat tcataattta 240

acattacata tttatatatt tagacgaata aatgtagcgc cataccttat tccccacagg 300
 ttacaaagaa tattacaagc agcacttgct ttcctttcct ttgctgacca aacttcacta 360
 tgc 363

<210> 31296
 <211> 252
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070f10d1

<400> 31296

gttaacatat agaataaaac tagccattca ttctgagtgg atcaacgccg agccagggac 60
 tctcatgtc atacaaaaca ttcattcaat ggcacatgcc gaaaagaacc acacttttgg 120
 ggaatggggc gaaatactgg ggatacactt gtgacgactc attccagcaa gtcactcaa 180
 caacatgagc ctaactcttt gtgttgaaag ggatgggtgg cctgactatc tgggtgttcca 240
 cagcacctag gg 252

<210> 31297
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g01d1

<400> 31297

aaaaccataa tgcataatag agatcaattc ataaataagt attcagcaag caatttatgg 60
 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagtagc 120
 agagtggggtt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180
 gaagaaaagg aacagactct tctcaactat atcctatctg ctgctgttgt tgaggagctt 240
 ggtaaccagg atatcccga taactgccat acatgttggg atcctgtcca gcaggagcat 300
 aaccataatt ttcatactct tgagcagcat acccataata tccaccacca gaaccagcac 360
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa ggactgcgac 420
 cccatgaaag acgcacattt tgtccacca aagcgtccca ttcacaccgg agggcctctt 480
 agcacagtct 490

<210> 31298
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g02d1

<400> 31298

aaaaccataa tgcataatag agatcaattc ataaataagt attcagcaag caatttatgg 60
 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagtagc 120
 agagtggggtt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180
 gaagaaaagg aacagactct tctcaactat atcctatctg ctgctgttgt tgaggagctt 240
 ggtaaccagg atatcccga taactgccat acatgttggg atcctgtcca gcaggagcat 300
 aaccataatt ttcataatct tgagcagcat acccataata tccaccacca gaaccagcac 360
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa ggactgagac 420
 cccatgaaag acgcacattt t 441

<210> 31299
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g03d1

<400> 31299

aaaaccataa tgcataatag agatcaattc ataaataagt attcagcaag caatttatgg 60
 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagttgc 120
 agagtggggtt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180
 gaagaaaagg aacagactct tctcaactat atcctatctg ctgctgttgt tgaggagctt 240
 ggtaaccagg atatcccga taactgccat acatgttggg atcctgtcca gcaggagcat 300
 aaccataatt tttatatact tgagcagcat acccataata tccaccacca gaaccagcac 360
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa gact 414

<210> 31300
 <211> 92

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g04d1

<400> 31300

atataacaca caaattcggc cgttataatt aaaaatgccc cacagggccc tctaccccc 60

ctataaaatt ttaatacaac tgccgcaaaa cc 92

<210> 31301
 <211> 283
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g05d1

<400> 31301

aaaacaagct agttgggttcg ttttcataaa tcatgcccga aaggggtttc tatgaatcat 60

atcatatttc aatacaactg ccgtaaaacc taaagccaga tggggatcct tgtgaaaaca 120

cttaataaaa tccgggcagt ttgtgcaagt taaaattttg gaacgaccga ttgattcgga 180

aaaactaaaa ccttttattg ggaccaata actttaaca taacaggtac ttctagagcc 240

ataatcgtca agatgctgat agatattcca cccaaaagaa cct 283

<210> 31302
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g06d1

<400> 31302

aagaataatt tttgtatcac gttgaattga tcatgtaaaa aattacaaat gaacatagaa 60

gaaacaaaat agaaggaggg gaggaggaga agcacacacg gagtaagtaa gtgacatgaa 120

acaaataata gatatcgtaa tggcaacgct caaaaaacta ccagcaaaga acggtggaat 180

gaatggcctt aggccttctc ccacttgagg ggcttgacca cttcccatgt gaagtcaggg 240

tcctctctgc caaagtgtcc ataagcagca gtcttcaaga acctgttatt tccaccctc 300

ttgagatcaa gggtgatgga gatcataccg ggctgaaat caaagttctc cttcacaatg 360

ttgagaatct ccttatcatg gatcttgccg gtgccatagg tgtcaacaaa gacagacaaa 420

ggctcgggca caccaatggc ataagacact tgcacaatgc a

461

<210> 31303
 <211> 348
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g07d1

<400> 31303

gaaacccaaa aataacttga tcttgcttac atgatctaac atcagggtcca gttttactat 60
 aacgcacata ataaccagtt tgcattgttt tggggcaggg gaggggttgt gaggggaaat 120
 agactaacgc gacacgtttt aaactgcctt tgcgccagga tgaggagacc aggggtgacta 180
 cgggccatgg aaaccatatg caatatgcag ggggcctaaa gtgaatcgct cagctcctta 240
 tctggcatac atttgaggac atacacctgc ggaactactc tctcaggacc gaccctgaga 300
 cgctagctaa cgatgaaaat ctaccaaccc acggcgatgg cgtatgac 348

<210> 31304
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400070g09d1

<400> 31304

aactagccaa tagctttggt aggatttacg ctgtgccatt gataccttat gttatacaaa 60
 ttatttcattg tattacacat gctgtaagca acgaactttt ggggaatggg gcagatacag 120
 gttaaaactt gtgatgaagc attccaacaa aattactaga caatataagc aaaactatat 180
 gtggaagaaa ctaggagtga ccccttacac ctgcttacct ttacacctat tcataattta 240
 acattacata tttatatatt tagacgaata aatgtagcgc cataccttat tccccacagg 300
 ttacaaagaa tattacaagc agcacttgct ttcctttcct ttgctgacca aacttcacta 360
 tgctatttat cgncgggatc cg 382

<210> 31305
 <211> 363
 <212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmst02400070g10d1
 <400> 31305

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aactagccaa tagctttggt aggatttacg ctgtgccatt gataccttat gttatacaaa   60
ttatttcattg tattacacat gctgtaagca acgaactttt ggggaatggg gcaaatacag  120
gttaaaactt gtgatgaagc attccaacaa aattactaga caatataagc aaaactatat  180
gtggaagaaa ctaggagtga ccccttacac ctggttacct ttacacctat tcataattta  240
acattacata tttatatatt tagacgaata aatgtggcgc cataccttat tccccacagg  300
ttacaaagaa tattacaagc aggacttgct ttcctttcct ttgctgacca aacttcacta  360
tgc                                                                    363

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<210> 31306
 <211> 538
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400070g11d1
 <400> 31306

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agacgagtaa accttcacaa tcagttggat aactcaaatt gtacatgaca acagttctaa   60
aaagtgggtgc ttccacaccg catattacaa atggaacaga taaatcctag ttttaattta  120
ttggatactt ccaacatcca ataagttttt ggcaagcaat cttgcatggc caggaaggga  180
aaaacgtgaa tcttctttat tgaaaccaa aaataaaaaa tccatgtttc acttcttcaa  240
cagcatggca ctgcattgtg ccattatctt tgatgccctt gtaatggcat cagtcataa  300
gaaattctca actacagtcc cgaatggggg tgggtgtccac cttctcagag aagggttggtc  360
tgagtgaaga tggtaatgtg gcaggctctc tctcatccat tttacaaggc ttgggggtac  420
agtactgatt cgagcacgaa cggccccaat tgtatcatag ggcaaacgca ctcttgccac  480
ctcagataga gctcgaatta tcttccaatc atctctggag tcaccaactg ttggaact   538

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<210> 31307
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070g12d1

<400> 31307

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agacgagtaa accttcacaa tcagttggat aactcaaatt gtacatgaca acagttctaa   60
aaagtgggtgc ttccacaccg catattacaa atggaacaga taaatcctag ttttaattta  120
ttggatactt ccaacatcca ataagttttt ggcaagcaat cttgcatggc caggaaggga  180
aaaacgtgaa tcttctttat tgaaacaaaa aaataaaaaa tccatgtttc acttcttcaa  240
cagcatggca ctgcattgtg ccattatctt tgatgccctt gtaatggcat cagtcataata  300
gaaattctca actacagtcc cgaatggggt ggtgtccacc ttctcagaga aggttgggtct  360
gagtgaagat ggtaatgtgg caggctctct ctcattccatt ttacaagggt tggggctaca  420
gtactgattc gagca                                                    435

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<210> 31308

<211> 466

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070h01d1

<400> 31308

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gaaatgaata tcgcaggtca tgcagtgaat acatgtccac ttttaattcc atagatttca   60
tcttgacttc aatatagaag ttggtgggaa caatgtgaga aaatttcaag atttatctca  120
actatcatat gtgtttggat gaaaattgag ttattaatgc aaggcggttct cttgtactt  180
gatgtgggta ggacaatggc atagaaatcc attacaactt ccagattata agaaaactgg  240
ttaaggggga gtattgggaa aggtcaaagg tgaaacctca aagtaaatta ggacggctta  300
tagtatatttg ttggtacaaa tggcatcttt gtaacaactc cttcattaga ctttcctcga  360
ataataatct ctactttggt gcctgctttg tgcaatcctg atttcacata tccaatggct  420
atgttcttct tgaggcaagg actgaatccg cccctgtga cttccc                    466

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<210> 31309

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400070h03d1

<400> 31309

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 agagttccaa ttatagctaa aagtattagc taatttaagc aatcatacaa acccaagtta 120
 cacaaaagaa gagaatactt ctagcaagca ttctgctatt acaacattga caagaaagga 180
 taagcatctt tctccaagaa ccgccatact cagcaggaaa tcaccagaca agaccaaaaa 240
 ttttcaaatg tctcatgcct tgctggcaat gttgtagaa agccagtcca aaccctcata 300
 gagaccctct ccagaagttg cacaagtgtt ttggatatac cagtggcggt gacggagtga 360
 atgaagtcca agcttgtcag ttatttctgc agcattcatt gcattaggaa agatctntgc 420
 ttgttggcaa aaacaagcaa aacagcatct ctaagttcat cctcattcaa catcctgtgc 480
 aactcatccc ttgcctcaac cactcgatcc ctatcatt 518

<210> 31310

<211> 309

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070h04d1

<400> 31310

gttgatttgg ttttcagcct ttaaaaacaa taggaccctt aagggttatg gaagaatcta 60
 aaaagccttt tatttttttg aaaaaacatc ttcacattgg cgcaggttca aatgaaaatc 120
 aaatactcct attccaacaa atcgggtatg ttaaacatgt ggaacaaaac ttagcgggggt 180
 aaaagctata ttaactcttt gtacaccaga cagtcgggta ctaggggatt cttcatggga 240
 catgaggttg caagtgtgtt attaaaatgc actccctggc acccgggcta ccaggggccc 300
 atgccgaaa 309

<210> 31311

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400070h06d1

<400> 31311

atcccaaaga taacttggtc ttgctttcat aatttaacat caaattcagt ttactataa 60

agcacataat aaccagcatg catttttttg gggcaggga ggggttgaga ggggaataaa 120
 agaaagtgag aagttttaat ttacctttgc accagggttt tcagaccact atgacttcct 180
 tttatggaat ccataatgcaa tatacagggt accttaagtg aattgtccag gtccttatct 240
 ggaatacata tcataacata aatctctgaa aattctttca caagaacgat cataagctga 300
 gacctcacca ttaaaattaa ccaattcacc aggatggcat atgactatta aactccagt 360
 aagattgaag ttcacaggaa tgaaatatat aatccttttg aaacaaaaat acttttt 417

<210> 31312
 <211> 202
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h07d1

<400> 31312

aataattgtt caataaaccg ccacaattac acaaaaagaa actaaaaaag aaaaagaaaa 60
 aattttccca cgcgtgttcc ccaccaaaga aaaaaaacat aaagaggaca gaaataataa 120
 aaaaaccata agaaaaggaa tcgatgccgc cacaggctaa aacatttgcg gctggagagg 180
 aaaaccagg gacccccag ga 202

<210> 31313
 <211> 385
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h09d1

<400> 31313

ccaccggga atcatcaatt atacattaat taaaaaatg aaaccacca atgagaagca 60
 aaagtaaaaa aacttgtcac tgactatttt tttgtttctt cctctgcagt aaaaaagatc 120
 aggaaataga taaatggggg gaaccctaac aaaaagaaa taaacttgta ttttatatat 180
 cttaagaaag taaaggggt gttcagacac ggaagttctt tccagtgaat gtttgaccaa 240
 attgccaatt tgatggaaca atgttccaag agggggaaga ggcacggtcg ctggcgggtga 300
 ctctgaagga caaagcctga ccacacaaa cgggggttga ctgccagttc tgtccccagt 360
 ttttgctcat tggcatccac cccgt 385

<210> 31314
 <211> 343
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h10d1

<400> 31314

cacccgggaa tcatcaatta tacattaatt aaaaaaatga aaccaccaa tgagaagcaa 60
 aagtaaaaaa acttgtcact gactatTTTT ttgtttcttc ctctgcagta aaaaagatca 120
 gggaaataga taaatggggg gaacccaaac aaaaagaaaa taaacttggt ttttatatat 180
 cttaagaaag taaagggggt gttcaaacac ggaagttctt tccagggaaa gtttgaccaa 240
 attgccaat tgatggaaca atgttccaag agggggaaga gcgacggtcg ctggcggtga 300
 ctctgaagga caaagcctga cccacaaaaa cgggcgtttg act 343

<210> 31315
 <211> 520
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400070h11d1

<400> 31315

ctgagatgtg aggcctttca tatacatata ggggaattct caaatacagc attagcaaatt 60
 gcaaattggca agtttctttc atattgatgg ctagctctct aataaaagag cccaaataaa 120
 atcaatgtat catcactctt cctcattgt tctggccctg acatatttta aacactcaaa 180
 aattatgtaa gcttgaaatg tccatctcca cacaacaaca acaacaacaa caacatcaaa 240
 ggaggcattc caatttccaa ccttggtttc aatcaatgat tgagccagca ataaagaaga 300
 ggatcacttc ccatcatcga tgctgcttgc cagtattcaa gggagaagcc ctcatgctct 360
 tggatttgtgt gtatgtgatc tgtggagttc catctttctt ctttcgctc ccttggtgag 420
 ataagcgaga gtgattagac aagattgcac ggtcattata atcctgcaat ggagtcagag 480
 ccttcataac ttcattcatg ttaggacggg atttggggtc 520

<210> 31316
 <211> 435

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400070h12d1

<400> 31316

agacgagtaa accttcacaa tcagttggat aactcaaatt gtacatgaca acagttctaa 60
aaagtgggtgc ttccacaccg catattacaa atggaacaga taaatcctag ctttaattta 120
ttggatactt ccaacatcca ataagttttt ggccagcaat cttgcatggc caggaaggga 180
aaaacgtgaa tcttctttat tgaaaccaa aaataaaaaa tccatgtttc acttcttcaa 240
cagcatggca ctgcattgtg ccattatctt tgatgccctt gttatggcat cagtcataata 300
gaaattctca actacagtcc cgaatggggg ggtgtccacc ttctcagaaa ggttgggtctg 360
agtgaagatg gtaatgtggc aggcctctctc tcattcattt tcacaagggt tgggggtaca 420
gtactgattc gagca 435

<210> 31317
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071a01d1

<400> 31317

agaaatagcc aagaagaatt ttatttgaaa aaaaacatag acatgttttag aagcagcata 60
aatagaagca atagccttgc aatcaacgag ttccccgaa gatggttccg tgagaggagt 120
gaatgtggta ttggttgatg gaagattgga gagtgttcca gcaggagaag ggaagaagaa 180
accggtgcgg tggagataac gaatggcttg aaggatgtaa cgacagcgcg tggcgctcgtc 240
cgaggagggt cttgaacgga ggctgggtgt gttgagggga catggattca gatctgaatg 300
tcgagcagat ctcaaacttc gtcgatcgtt cagccttctc cgccaactac ggttgggtggg 360
ctccacgaac cttggcagca gccagcagct tcacggata tggatttgga gcttctgcgc 420
ttcaaaacga cgtcgtcatc gaagtgtcgt aggtaggcat g 461

<210> 31318
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071a04d1

<400> 31318

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aaaatgatac agtcattcat aggcaaaca atttacaca gctaatagac accattgttg 60
ccaattcctc cttccggtaa tacaagtaat taagcaatca aaagacaatg gcagaagaaa 120
ctaaggaaga agcttacata tacaagattt gtccaagatt gctagttaag aagattcaat 180
gtccacgcca gcaagtatca atttaagagc aacaaccacc attttgggat gcttgggatt 240
cttgtttttg ttgtaaaaca ctcttttta ctgctgttga gccttcttcc aaaagactag 300
gagcttgcac tatctttaga gcaaggctct gaaagcactg ctccacattt tcccttgttt 360
tggcactaca ttcaagaagc aaacacccca aatcttttagc aagtgcataa cctcttccc 420
tgctcacagc cctttcagta tctctatcaa ctctatttgc aactagtatc ttcacacaat 480
cctgattagt tgagtagagt tccattgct tagaccaca 519

```

<210> 31319

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a05d1

<400> 31319

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ggaaacatga attaagcaca aaatacttcg ataactttat attattttac atgcatgcat 60
agcatagata gctgctctc aaattagtca gcaggaacaa agatcgagag atccaacgat 120
ctttaaatgt gacatgtgcc ataaatatat aacagaaaag agggatatggg atatgagtca 180
agttttgatc tcattcaact acaggatccc aaaccattac tcttaagact ttgaacttca 240
cttgactacc aggatcatgt tgttctaagg agctaacca acacaggccc ttaggatgtt 300
gtccagcata gtcgctgct ttgacagtgc attaaccact ggcggactcg gtggaaccag 360
aggggccttg gtcaggtaac tgaggatgga cgcaactggg tggaatgagt ggaactatcc 420
ctcatttcag cattaaactc gattcgaggg ct 452

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<210> 31320

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a06d1

<400> 31320

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gtgtcctagc tcgtctaaga gctagatttg cctcaattgt ttgtctcttg ccttcgcgct 120
tattcaaatt agcttctgct atttcaagag ttgctgtgc ttcttgtgga tcaatgtcac 180
tacccttttc cgcattcatt actaaaacag tgatctcatt attgtttatt ctagcaaaac 240
cgcccatcag agccatcggt aaccattggt cttaagaag acgtattctc aaaataccta 300
tatctacggc tgtggcaata ggcgcgatgat ttgtaatac tccaatgtgt ccgctattag 360
tagataaaat gatgtccttc acttccgaat ccaaacaat tcgattgggg gtcagtacac 420
aaagattgaa agtcattgct tcaaattgct ctccatttct aagttcgtag ctgtcgcagt 480
agcttcatcg atattacct 499
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<210> 31321

<211> 394

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a08d1

<400> 31321

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caaaaccac gaaggggcca ggtacttttc aaaaatagag gctaagagtc ccccatctg 60
aaaggcgtgg aggggcctga tcctagatgc caaccatgcc gtatcaccgg accattatag 120
gaaggcctgg ctaagaagtc cacttgggag gggaaagaaa aagcccttgc tgacgcccc 180
aattacgtta ttgacggact gagctcaaga cgtttttgcc cccaccatt tgtttaaaag 240
aggggccctt ttttaaaaac acagaagggg gcatagcctg aatagcccaa gctggaaaaa 300
caccctttaa tgggtccaca tccaccttta ggaatacccc ccttgggaaa ctttttacca 360
acgcatccaa tataggggca tggaacggc ttgg 394
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<210> 31322

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a09d1

<400> 31322

ggaagataaa ttttaattcat gattcagaaa atagtcaaaa agacagtga tcatacttat 60
 acagatgaaa atacagtttg atatttgctt gtcacataa agcaaccgat atagatgaat 120
 agcttggttc aatcaaaagt acttactcct caaatatata tatgaaaaaa agaactagaa 180
 taaggaggagg ataggcacia cacagcacia cacactcttg aagctaactc taacggacac 240
 cattcatctt ggcattgggtc ttcttcctct gcaacacaaa cttgttccaa atggcagtga 300
 ttgctctctg aggctccata gcactcttct tagcaaccac taccttgcca ttttcttcag 360
 caaagactgt cacactagtgt ctgcttatga ccctagcagg aagtgaatta agctcatgca 420
 gaacctttct aacatcggtc accaggcgct ctgagagagt cctttagaag tcctccctga 480
 tgacaacacg aagccctgag acatgttggg catttgggg 519

<210> 31323

<211> 477

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071a10d1

<400> 31323

aaaaaatcca acgggaccgg cttcatttca aattaaagat caggggatat tttcaaaaaa 60
 ctaggctgcc tcaaccaact gtcacagaaa tactcctttg gggaaagaag attacacttc 120
 ccagttaatg ggttccaact tacaagaacc ttggaccgca ggacatattt cccttgca 180
 gaaattatgg acttctcacc taaaatgaat ttaatgcaat aatatcttac tataggatcc 240
 tcaggttctg ccattctacat cgatgccagc ccagtcacca tctggagttg aagaaccacc 300
 cttggcccca gcgccaattc cctttccttt tgggttgaag ttgactttct ttttacttct 360
 gccttcagct tcattatgag gctgctgatt aggcccatth gttactggaa ctttttgacc 420
 attactttgg ctgggaatac tctcggaaga tcccctcttg gatcccttgg ccttggg 477

<210> 31324

<211> 479

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b01d1

<400> 31324

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aaaaaaaa atgggggggg ggacccccca aacataaaag atcccaagcc cctctatttt   60
tggtcccccc caaaggaaaa gggtaaaaaa aaaccctcc ttggggtttt ggggtcccaa  120
aaaaccccc caaaaaataa aaaaaaaccc cccctttttt tttttgcctt ttttaattcca  180
aaaacaaatc caaaacaaaa ttcaggggct ttttttaaaa aagccccata aaacccaac  240
cccccaaagg ccgggtctcc cattgaatgt gctcaaaac ataatttctc ttttaaatac  300
agggggggcc aaaccacccc aatttggggg ctttgaaaga aaaaaacatt caaagggggc  360
ctttgctttc caggttttaa aaaatgggtcc attcttttcc aaaccctcc cccaagggg  420
ttcaaaaccc cctcaaaaaa taatcccttg gtctttttta aaaaaccctt gaccccccc  479

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<210> 31325

<211> 530

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b02d1

<400> 31325

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gaagctaaaa tgtggtttta ttgtcgattg atatatatat atatatatat atatatatat   60
atatatatgc tcatgtctgt cttatatggc aaaaattttg tgggtccaat cacaccatta  120
atcctaaact tgagagaaga atggacataa tttgtcagtg acgcccacat tccttctaga  180
caaattagat ttagtggaca gtctatcata gattaatctc caagcaaaaa acgcagcttt  240
acttgggtatt ttagttttcc atacgtcttg aaatacctca tctatattct catctcttga  300
ttccctgtca agcagttgat atgcactgct tatagtatat accccagttg agtcgcttag  360
ccacaccac ctatcttggt gctgctcatt tgtgttgaga tggtaaattt cctccaaaga  420
gcagtcccc ataggtatct caacctcaa aaagtgacct cctccattgc aagcaccact  480
ctcaggttgc agtgaacta cataccatct gctgaatgtg ctgggttttt 530

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<210> 31326

<211> 369

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b04d1

<400> 31326

gataaatcaa gccatgcac atagtctgaa taaatcatgc aagactcatg gctccatggg 60
 ggccatctat gaaatccagg attccaaata atccacttgc accaaaactt ccgcctatgt 120
 taatacagaa tccgcttgct ggtggcactt tatgtcataa gagcatgata ttatcctaaa 180
 tacatatggc aagagcacgt ctggtgtctt actctcacta accaaactgc agatgactga 240
 tgcacatgat ggtggttaca cactacacta gatctatggc caaccctccc ccactaaagg 300
 aaataaatgc gatatgtatg aatcgagcag tcaaatgtga gaacactctg gacgctgcaa 360
 ccgtgcctt 369

<210> 31327

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b06d1

<400> 31327

agttattccc atgttcggac gcatcaactc gttatgaaat cacattgata gcctatactc 60
 gcgtcctagc tagtctaaga gctagatttg cctcaattgt tcgcctcttg ccttccccct 120
 tattcaaata agtccccgt attccaagag tttgctgtgc ttcttgggga tcaatgtcac 180
 tacccttttc cgcacatctt actaaaacag tgatctcact attgtttatt ctagcagaac 240
 cgcccatgac agccatgggt aaccattggg cttaagaag acctattctc aaaataccta 300
 tatctaccgc tgtggcaata ggccatgat ttggtaa 337

<210> 31328

<211> 424

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071b07d1

<400> 31328

gaaaaccata aaagtttttt atttatagta atctgtggta caaaagcacc attttctctc 60
 ttataatttt gatttacatt cacaagaaa taagtatgat gctcatgatg acttggccac 120
 atcattaatg ctacgaagga ttgaagtgca tgcaagagtc aagaatatgc attgctacga 180

agttgtaaat cacaatgcta gaaaacacaa agcagttcct cttattttatt aagtagataa 240
tagacctcat tgcttgcttt aggcattgggt gttgtcctct actggagggt actttccata 300
aggtgggttc ttgtatggtg gcttcttata tgggtggcttg taaaccggtg gtttcggctt 360
gtaaaccggt ggttttggct tataaaccgg tggtttgtag actgggggct tgaacactgg 420
aagc 424

<210> 31329
<211> 554
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071b08d1

<400> 31329

gaaaaccata aaagtttttt atttatagta atctgtagta caaaagcacc attttctctc 60
ttataatttt gatttacatt cacaagaaa taagtatgat gctcatgatg acttggccac 120
atcattaatg ctacgaagga ttgaagtgca tgcaagagtc aagaatatgc attgctacga 180
agttgtaaat cacaatgcta gaaaacacaa agcagttcct cttattttatt aagtagataa 240
tagacctcat tgcttgcttt aggcattgggt gttgtcctct actggagggt actttccata 300
aggtgggttc ttgtatggtg gcttcttata tgggtggcttg taaaccggtg gtttcggctt 360
gtaaaccggt ggttttggct tataaaccgg tggtttgtag actggtggct tgtacactgg 420
aggcttgtag actggtggct tcttaattgg ttgtaatga gtagcaggcc cttgaggcat 480
gaggataatg gctgcaagat gcagcactag gatggataga aaggaagcca tcttaatggg 540
tttggtttgg tggt 554

<210> 31330
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071c05d1

<400> 31330

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ccgaacacct gaaatacttt taaaaaaaaa gaaaatcaag ggaaaaaaaa taaaaacaca 120

ggagatatat ggcgatggca cagtaacaat aacacttaag aagcagcctt ggtctcctca 180
 gcagctgtct caaaatcctg gcctggaaca agctccggga catcgatc atcattctcc 240
 tcttgagctg tggttgaacc ggcggctcct tcaggagcct gcttctggaa ttgctcggct 300
 agcttcttca ggttttctaa gttatctggt cctaattggt ggataatgct agggagtata 360
 tcttgcaact tctttgtttg tggagaacca ctgacaaccc aagtattagc agcaatggat 420
 gcttgaactt tgggatatag aaactggata actacgtcat ccttaaagat attgacctcc 480
 tcaatagccg ggatggcatt caccctatt gtcttcaggt gctctgaagc cttatgtcat 540
 ct 542

<210> 31331
 <211> 394
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071c10d1

<400> 31331

cttgttgggt ttgtgggttt tgaaattggg aaagccccgt agaggacatt aagcgcccc 60
 cgctattaag gggcgcggtg gaagctggat ttcaggaggg acttgaacca agcgtctatc 120
 tagggctagg gcagcgaccc tttatgggtt aagcgaccgc ccctggaaac ttacaggggg 180
 aaaccaaacc aactcgtta gagccaagcc ttgttatggc acagaggggg gtccaggggtg 240
 aagcacggac cggggaaaaa caggtttgaa aaaagcccc ccgttatgtc aagggttaaa 300
 gaataccgac ggaggggagc tttttacaaa gaccttatgg gggtaggtc gggtccttga 360
 ccggttgggt gttttccggg aaacactgtc actg 394

<210> 31332
 <211> 530
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071c11d1

<400> 31332

gcagaaatag gccatgcaac gccactcttt attatatctg tcatcatatt tacatacaga 60
 aaatcaaggg gaactccaca caatattaat attttcacta tacagaaagt gcagtaatat 120

ataaacacgt agaccattgt attgcatcca tcataccgga atgaaggaaa ttacacact 180
 actaaatddd ccggatgact tgaaaaaact aatcataggg tcataaagat cttgttttgc 240
 ttgcaagctt aaaatgaagt caacatgacc atagttdttca agataaacca cttccggtgt 300
 ggatggcaat tccttgagtg tgtgctggaa atcagttata tctgcaaag catcattgcc 360
 accataggcc atccacagag gcaatgattt gggatgcca ctaaggtcga actttgggtg 420
 attgaacttg ccgtactcta tcagatttdt tagctttcca taatcatact tggagtaggt 480
 acctctgcgg atcatctgga aaaggtgtt tacgttdttg gaggatgatg 530

<210> 31333
 <211> 431
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d01d1

<400> 31333

ggattcctta atatgttaat tccttdttt ttgggggcca attdtdtccc tggccaaaag 60
 gggccggcaa taagataatg tacctaaaaa aaaaataact actgaaaaag gccaatctt 120
 tcattccata caagaaatca ccacttgtat tccgattgct tgaatcgaaa tctcctatgt 180
 tccaatgaaa ttaactagtt ttccagacc cttgcatcaa ctacgggaaa tgtcttggca 240
 ggtaatattd taacactcct tccaaaactg agaaaaaat taaaactgaa tgtgaatcat 300
 tcattgcgga ttgaataata tttatccac agagtttgag attdtgatat tccgttcata 360
 agaactttga acttggcact gcaatctcct ccacttatgc gggtaaagga tgcaataact 420
 cggagtgcac t 431

<210> 31334
 <211> 348
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d02d1

<400> 31334

caatgacaaa ccaggccaat ggatttdtdt ttggaggcca attggtgccc tgccaaaagg 60
 gggccggctt tgatttacag aaccgaaaaa aaagcttaca acttatcaag gtcagagatg 120

0953113-032200

gaatgccaac ccaaaaaccg ccgaaagaac tccacgggcg agaaaggaaa gcccctatgc 180
tccaacaaaa aaaccaaataa tttcgagaca gcgtcgacac ttccggttgg gaccagaggt 240
ggtaaaaaag caacccttcc tgtgcaaact gccaaaaaaa tgtaaaactga tcttcaaaca 300
ctcaaaccgg aacgaaatat atttatccca cgctgtggca gattatct 348

<210> 31335
<211> 518
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071d05d1

<400> 31335

aaagtgaaaa aatattttct aatataatta aatgtgtaaa attactcata aaatatgatg 60
atataaaaaa tgttacattt aactaatata ttgtaagctt cattatTTTT ggctcctcag 120
tttttagtca agctcgccaa tgcagtcgcc ccaactcaatc cagctcctct atatgcatac 180
atcacaattc tctaagcttc tgtgttcaat ccatctgcc a tgcaagcaat aagctgaaag 240
aatgcattta tgcataataa tccagattgt gcaccagata ttttgcaaac ccaagttcca 300
aagtcaacaa cttaagggtg aatatacagt aaacataaaa aatatggaca atatagacaa 360
ataaccaaca cagaatttat atgggtgtctg attgtgggaa gagcttttcc aacatgttat 420
tccaaaggat cctattgggg tccaattcct ttcttgcttt attgtatgca tccacaggaa 480
accgctttct tagcttttct ggagagctgc aagctcct 518

<210> 31336
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071d06d1

<400> 31336

aaagtgaaaa aatattttct aatataatta aatgtttaaa attactcata aaatatgatg 60
atataaaaaa tgttacattt aactaatata ttgtaagctt cattatTTTT ggctcctcag 120
tttttagtca agctcgccaa tgcagtcgcc ccaactcaatc cagctcctct atatgcatac 180
atcacaattc tctaagcttc tgtgttcaat ccatctgcc a tgcaagcaat aagctgaaag 240

aatgcattta tgcataataa tccagattgt gcaccagata ttttgcaaac ccaagttcca 300
aagtcaacaa cttaggggtg aatatacagt aaacataaaa aatatggaca atatagacaa 360
ataaccaaca cagaatttat atggtgtctg attgtgggaa gagcttttcc aacatgttat 420
tccaaaggat cctattgggg tccaattcct ttcttgcttt attgtatgca 470

<210> 31337
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071d09d1

<400> 31337

gacaaaaaga aaatacacgg gtatacataa atgaatacat agccatcttc ccagggataa 60
ttactctatc ataagttaaa cacaaggaag acaagggccc ccaatatttt actacaactt 120
aagggtgata agctttgcaa gaatggccat atactaaaat tgccgttgta aatggaagga 180
aaatacatgt gatgcgataa aggggggggaa agatttctga gctataaagt tacctaakat 240
ggcccggggg gatactaact ccctgtacag accaaattga aaaaaagggg caaatggaa 300
gaatcaagat attcttaaag atgctttgac agcatcgggt attacaactc aacgaccaga 360
aacttataat gaattgggta tctgggctcc ctaaagttgg agggttctaa tctttgcctt 420
gtccaaccgt gcttttcgaa ccacccttg gatttggagg tcatgggcct 470

<210> 31338
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071d10d1

<400> 31338

gacaaaaaga gaagacacag ggtatacata aataaatagc atagccattt tcccaggggt 60
aattactgta tcataagtta aacacaggga agacaagggc cccagtttt gtactacaac 120
ttaagggtgg taagctttgc aagaatggcc atttcctaaa attgccgttg aaaagggaag 180
gaaaatacat gtgaggatgat aaagtggagg aaagattttt gagctataaa gttacctaac 240
atggcccggg gggatactaa ctccctgttc agacaaaatt gaaaaaagg ggcaaatg 300

aagaatcaaa tattcttaat gatgctttga cagcatcggg ttctacaact caacgaccag 360
 aaacaaataa tgaattgggt atttggtccc cctcaagttg gaggcttcta atctttgcct 420
 tgatcaaacg agcttttcga accacctctt ggatttggcg gtcattgggc tttaacatct 480
 ggacatgggt gcttga 496

<210> 31339
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071d11d1

<400> 31339

aggaaataaa aatagcattc aatataataa agaggtttcc ctctataaat acaagagatt 60
 agaacataag aaaggaatgg agataattag gtgtgcagga tacaaattaa tagatgacac 120
 tacaacttat gtaagatgat atgagcacca aattttggat taagagtgag cacagtgact 180
 ggagcatgtg cataggtagg agaaagctca aatgagaagc gttgtaagag taatgacaaa 240
 accaacttcg cttctaataa agcaaaattt tggcctaagc acactctagg accccatcca 300
 aatgggaaaa acacaacttg gccttttggt gcctttgcta ctcttcagc aaatctttct 360
 gggttgaact ctgtagcatc atcaccccaa atatcacgat cctgggtgaat caatagtatt 420
 ggtaaggaaa cttgcactcc cgcaggtagg gaaaggtttc caagtttcac atcattcttg 480
 atcgctcgag caaaataaat taaagggtggg tattacctaa gaacctggta taaaatcatg 540

<210> 31340
 <211> 358
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071e04d1

<400> 31340

gaggacaaaa atgaaatctc attcttcagg ataattagag gcagtgggtc ttacataccc 60
 tcaacgccct tgtaggtaa cattggaggt tactggatac acacaataga caaagactac 120
 atgcatcttt tctgactatt gtggtaaate tgaccatgtt tgctctattc acatcgaca 180
 ataaaaaaaa aaatgcacaa cctgctaaat gtgcatctag agaaaggtaa tactatgcgc 240

tggtgacat caacaaaagc ctacttcacg tttactgcac aaggcatgtc atgttgggct 300
agaactattg gcttgtgagt gtaaataatag taaagcagta ctcttacacc tactttca 358

<210> 31341
<211> 432
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071e05d1

<400> 31341

caaaagctat tccattaact tgccataaga gataactatt tcttggtcca atatcaacat 60
ttaaacctgt tatttgagaga agagggaaca caaatgatga ccatctttca attcaagaga 120
ccatctagca ctctaataagg gttctaaata ggcaagaccc caatagaaac caccctatta 180
agagttgaga gaaggatagt accccaagta agaagggccca tgcaaccata aaaacaccta 240
agcaaacaac cacaacaaaa ggcagaaaag accttacaat tgacctgaaa tcaaccagat 300
gccctttaa tattacaaa gctcctacat tcaccatgtt ccaattcatt gatccaccat 360
aacacagttc gattcagaca gttggcaaca aacgagtggc agttgcaagt gaaaagggtg 420
ggagttttgt tc 432

<210> 31342
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400071e07d1

<400> 31342

cccgatacgg ggacaatttt ataacaattt tatttgatgt aaatacgaag ctcacaaaa 60
cacttaattt tggataatac aaagaccaat ggatgcggaa gaacacaggg aaaacgcatg 120
acccaaaaaa cgcaaacgag ttaggccaaag cagacgcac atggaggact tcagctgttt 180
caactatgca actaaatatt gcaggatgat taatactaaa aggtgaggat gtttcctctt 240
attctaaagg agaaaataaa tcaatctgat tgggtgttaga tttcatttct gggtttggtc 300
gacctttgct cgaatcttct ccttcaaac agatatttct ggctcaaggg tgaacattct 360
attcaaagca ttcattgtct ccagtgtctc actaagagtc cggctggcgt tcccatcaca 420

ccttaaaagt tgcattggac catgaagcac cttattcact ataccccgac tta 473

<210> 31343
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071e09d1

<400> 31343

caataacaaa acgcatggaa atatatgcga tcaaggatca aacaaacaag atgtaagcaa 60
 cacagcacgc acgcacaaaa ggggtgcaaga gtgccaatta tagctaaaag tattagctaa 120
 tttaagcaat catacaaacc caagttacac aaaagagaat acttttagca agcattctgc 180
 tattacaaca ttcgctagaa aagataagca tctttctcca agaaccgtca gactggcatg 240
 aaatcaccag acgagaccaa aatttttgaa atgggtcatg ctttgctggc aatgttgta 300
 gaaagccagt ccaaaccctc atagagaccc ttccagaag ttgcacaagg gctctggata 360
 taccagtggc gttgacggat tgaatgaagt ccaagcttgt cagttatttc tgcagcattc 420
 attgcattag gaagatcttg cttggtggcc aaaacaagca aaacagtatg tttaagtca 480
 ttcccttgca acatttttgt gcagctcacc ccttgccata accact 526

<210> 31344
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071e10d1

<400> 31344

cgattattat aattatattt ccagcaccga aaaaggaact gcaattatta ttcaagttgg 60
 ttgttgcaac attgattgct gctcgccaaa agactcgtcc gaaacaacaa tagcgtccgc 120
 atcccaccaa gtatccgcgt cagattccgt tacgctctct aacggcgtgc tgacctttct 180
 catatccccg accgtcacgc cgtaacgccc gtcattctctg acgtagacct tctggacgcc 240
 accagattcc acgcgcaggg tctttccac ggtgggaccc cactccgcca ccaccgtggg 300
 ctccgccgc cgcagccgcg tgtcccagat ctccagcgcc agattcccgc acgcgccttt 360
 ccccgccgag acaaccaccg agggagacgc ggtggagctc gtcggaaccg acgcgttacc 420

<210> 31347
 <211> 309
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f03d1

<400> 31347

cggggaaaaa accccccccc ccaggggatt ctttcaaaaa cccccccctt tttccacccc 60
 ccccccttg agaggggttc aaaaaaacta cattcccggg ggccccctggg ggaaccattt 120
 tggcagccga aaagccctcc cctaacacag ggggtaacag gaatcttcgg actcaatggc 180
 ctaacaaaga aaaataactc cctgagagca cccccccaga gggccctatg ggctctccag 240
 aagattgggg gccaaagagcc ccggtgaatg gcccaacgcc ggccattcca ggggggggaa 300
 gagagcccc 309

<210> 31348
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f04d1

<400> 31348

aaggaaaaag gaaaatgggg cgatatattg gagtctgcat gggcaaataa atgctcagta 60
 aaattatgat acatgtacat tcctgagcac actaaaacag atcagtggcc aaaaaagaaa 120
 aaacaaaaaa ccaatcagaa acagattgga gaagataata tacattgata actgtgaatg 180
 atgagtggca tacgcaaagt aatcttgcaa catgtatggg actgagaact ccctcattgt 240
 agtghtaagtc aaaaaaagc cgcacaaaca ggggtggaact agaacgagat ctcacaaggt 300
 gcatgaaatg ttcttcctcg acatattggg tccagggttt caccagcata cgaacagagg 360
 ggtgacactt caacacctgt tgcatataag ggactgaat gtgttaagaa gccacctgca 420
 gcaactaccc aacgagtatg gagtgcgca acaagtagtt gcgcactgtc tggagtgtca 480
 acattggatc catttgcatt tttcac 506

<210> 31349
 <211> 382

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f05d1

<400> 31349

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ccggtggatc cacttttttt agatttgtct ttttttttg gggaactaca gcttgtggcc 60
cctaaccaga cgacaaattg ggcccagggt tcgtgaatgt catcacttca caaaggggtg 120
gatccaatag gcgcccagat ttaatatattt acatgggtgcc cgaaccaaag gttttttcgg 180
cgctataacc catggaaaga aatccctccc ctcccttgaa tgggccatac acagagtcca 240
ttatattagc agtttggggc acgggattct tcacaaaatc aaagaaagct ttcccagggg 300
gcagactaag gttgggacct aaaatgtgaa tgaaatgccc aacaaacaag gctcggggaa 360
caaggtgttt ttttttctcc aa 382
```

<210> 31350
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f06d1

<400> 31350

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agtaaaatca attttgatca aattattttc tccatttgct ctattttaga cgaggaacag 60
aggcaatata agcaagtata agctgtaagc atcatagcac taagagctta tacaataata 120
tatacattgg taacaattgg tatcatcata cagtttttct atgtttaact cagacatata 180
actttatttg actgcaagca atcacagtca cagagctcaa cacagcattg gattaactca 240
aaacaggcca gggctgcaca tatctgagtg caaacgatgg tgcactgggc attcacaaaa 300
gtgcaagtct gcaacagaca catgccacaa caggtatcag ccaatcgacc acaacaattg 360
gaagcaggct tccccagtag accttcaggt ggttggtgctt cttttatagc tgggtggcaag 420
ttctcagcag ttgctttcaa gtcaccaaatt ccaagattca ac 462
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<210> 31351
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071f07d1

<400> 31351

gagaaattac tgacaaataa tattagaaat atgctcatgg tacaaattta gattactccg 60
 gacagcgtat atcatccacg aagaggattc ttattgacta aacgtgcata aagtcaaaga 120
 actatagtaa acttcaaaga tcaagaggct gattattatt tacaaaacac gatgtacctg 180
 atggagaaaa ataactttat gaccattatc tcaggaagtt gcgggttcag ccccatcgtg 240
 tcgggcacag caaattgtag ctttatgatg cccttggaag actttaatat cttcaccagt 300
 tgacatagac cagagcctcg caggtgtatc agaggaaagct gtaataaggt aggcgccatc 360
 cacggagaag acacagtgcc acaccacgct ttggtgacct ataagagttt tttctagggt 420
 aaaaccatca acattccata ttttgacagt ttgatcagaa gatgcagttg ccatgtgcct 480
 gtggtgttca cagaactcgg gtgattaaag acctttgagg atgtatcc 528

<210> 31352

<211> 436

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071g02d1

<400> 31352

ccttagccaa tatatcatga aaagtaaaaa ggggcaaagt aactttgtgt tgattgctct 60
 ctaaattaaa gttatcttct tctgcgtgta aaaagggaat gaatacatca atcaaattcc 120
 gggaggcttc ataaagcgtt tccttaggag ttgaacttcc atttgtccat atttcgagaa 180
 agagtatctc ttgtttttca ttccattca cataagaatg aatactatga tttacatttc 240
 gaacaggcat aaatgtggca tctataggat gacctccatc ttgaaagttt tttagtgttt 300
 ttatacgata cccacgattc ctctcagttt ttaattcaat acacaaatca acgggttctg 360
 ttacgatggc tatatgttgt gtattatcaa cgatttccac agaggggtggg aaaatgatgt 420
 cttgagcgga tacata 436

<210> 31353

<211> 496

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400071g03d1

<400> 31353

agtcacatg atgaagactt tcttacatat taaaaagcaa aagataaaaa tgtagagcat 60
 caaccacatg ggtagtgttg cagttgttta cagggttcaa aattaatgaa caccttgagg 120
 acccacatta gactcttgaa tgtctaacaa tcaggaccac aacacgaaaa aaaaattata 180
 tatcgcacaa aatgtaacat ggaaataaag caaactatac actgcttaca taaacatggc 240
 tcatgccagc cccacctaaa cctttgaatc gtttgttate tgctttacca cttgctgcgt 300
 cacaaaattc tctcaacctc ggaggaaaga agcagaaggc ctatgataag cagaagcctt 360
 tctagggaca tctgaaccac cattgccacc gttggaacgg tcatgaccgg aattgcgtac 420
 atgatgctgt ttatgatcag cgccttttct ctgcatgctc tttgattcct gaagctggtc 480
 taacgctttt accacc 496

<210> 31354
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g04d1

<400> 31354

gaatgaatgt aatcttgtca ctcaacaaag agaaaagggt gatgcttaaa ttccaataca 60
 tacatctcca gaaaaaagaa aaaagagcta cgaatcaca aaaatgtagc ggtaaattgga 120
 agctcatatg aatagtaatt tacattcttg accaagcaac agaaatccga tgaagaaaaa 180
 gcaagccaaa agaattcaat ctctgtgaagt tgagtgaaga ggccaagcat ggattgtcca 240
 acttgcaaaa cttctagctg gctatatacg cattttgcac ctatatgtac accaggaaag 300
 cacaccaga aatgtcatca aggaacaatt ccaaaaagaa ttcaaattgat atgccacac 360
 acagacttga gccagtgtgt gatttaacat gggcaggttt aatggaacaa atgacaacgc 420
 ttgtggaagt gcaaaactag cagcaatcac attccccttg gaaatgtagc tgctccaaca 480
 gggccaatt ggaagttagg aggtagagaa cacatctctg atttttcaaa gagccatact 540
 tcaagac 547

<210> 31355
 <211> 553

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g08d1

<400> 31355

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aacaggtgga aaaaataatc gtgaaactca aacaagtcgg taccaaaacc ttcgtttata   60
atTTTTgact ttctggactg caccctccaa ccaacatgac ccattactcg caacaaatac  120
atatgtagaa tgaaaaataa caataataac aaactcccag accccgaaag ctcaaccagt  180
catgcctcaa aattcaaacc caaccctaac tttgccagct gaaataaact caagaggaca  240
caaacagctc aattcagtga cacaatccgg caactattaa gtatgagaat atcccaagat  300
atgggcgcca aaaacatcaa ccacctaacc ttgtcagatt gccaaagtata gaatatgaat  360
aagaaacact caagctgagg atgcaggctc ttcggctttc ttatcttcaa cgccttgct  420
ttccttcctt gatgcagatt ctttctccac agttttgtcc tcagacttct cttcatcctt  480
cttctctgca tcaacctttt cttcaacact taattttctca ataagaccag ctgcatcagc  540
tgattccttc tca                                                    553
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<210> 31356
 <211> 522
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071g10d1

<400> 31356

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atataaagaa tttctttatt aaatgaaatg gccaaaatgg gaataagatc ctaagttaca   60
ttacatatag tatcaaattg acatgaaatt caaacatcaa taactcaacg agagacaagt  120
tgttcacaca agtatcctta aataaatcta ttttgaatca gcgagcaggc tttcgtagcg  180
ggctttgaag aaggcaaaaa gtgggtctct aggaggaaga acttctttca caacagggtg  240
gctcatgaac tcttggctcc aattgtagag cttatgaaat ttctcacttg tgaataactc  300
caaccctgca atttcttgaa ccatagggac ccaaaatgct atgaagatag cagcaatatc  360
taccatccca aactcctctc ctccaaagaa cttcttgccc ttgatctcac tctcaagaaa  420
ctgcagagcc ttcaacgatt cttcaacatt cttctcacgc tctttctcat caaccgtgaa  480
aacagatttc catacagtac ccccaatctt gacatcaatg aa                                                    522
```

<210> 31357
 <211> 559
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400071g11d1

 <400> 31357

ctgaaaaaca aaatcccaat ttaactgaag tacgtttcga ttatactgaa tacacaacat 60
 tacgacgtag gaataaacat taacatgggc cacaaaagaa gtacacataa caagctatca 120
 cagaaggtca aaaaaataat ccagaccttg gccaatcttc cagatcgaga tgccacattc 180
 ccatgaacga gcttcctcta accgcaaaga aattgacttc aaagatggat aaaataccac 240
 atgcctgata tccttgctgt cagtgtaaaa gaaaaaatgc tccccactat tcttatccca 300
 ctgcagttca ggccagtgt tctccaaaag tgccaggtaa tctctcccaa taatagctgc 360
 accccctgca tctgcatccc ttgaaagggg gaaatcattt ccatagaagt tgataccaag 420
 aagtatcttg ggggcaaggc tttgggctct attgccagag gtaccgagaa gcagctgtag 480
 aacaatttga atccatgtta aagggtgcatt angaccagga ttatgaggat tagaagaatc 540
 atatgtcatt aacgagaat 559

<210> 31358
 <211> 529
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400071h05d1

 <400> 31358

aaactcacia gtgaatgcaa ctattattaa ctttccaagg gtaaaaaggc ctgcactctg 60
 catgacattt atatatgcgg agagcacagc aaaatgcccc actgatcaca aaaatatcca 120
 ttaaatttga tgaaaataca gtaaaaataa aaggactaat taatacaaga aaacaaattg 180
 ataatcatag agcagttctg agttctacaa gcaaatttta agcagaaatg ctgctcagtc 240
 agagaagaga cctatatgag agttgatcat aaggaggaca cgttcccgtg tttctcagtt 300
 tctccataat aattatgaat gaacgacacc aatcttctta gcaaaatcat ccccatcttc 360

ttcttccatg taatcttcct ctggattatc accctcttca ccttggtcac tcatagtatc 420
 cctcttcacc ttgttcatac tcatagtccg catctctctg atcatcacct tcataatact 480
 gatcctcacc cgattcattg tacactattc cctcctcata ttcaccatc 529

<210> 31359
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071h08d1

<400> 31359

ctactgattc aatttgcattg atgcatttcc tagaagtgtg tccaaactat tcacattaca 60
 caatcctttc cttcgatata ggtcaaacta ccagtcacca gacatgaaag cttagtatca 120
 acagaaaaat accagtagat tttaatctta cttctgggtc catttacatg atacatgccc 180
 aaatttgtca ccaaactaca aacactacac aatccttcaa acagactaca atgacaaaat 240
 ctgatgaaat aaattcctca actacacaca aataaatggt cctctcacat tcaagagctg 300
 cacaaactgc tacaaatttc aaatctcata cagggttctc accaggcaga taagaaggag 360
 aaccaccctc aacctgggtc tttttccttt ggaagatgcc actaatattt ggcaagagtg 420
 ttttctttga aactgaaacc ttctcctttt caaacttttt cacctgcacc attgtacgag 480
 gaggattctg cttttgaatc ctatagtgtc gaggagatga ttctgttg 528

<210> 31360
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071h09d1

<400> 31360

atataaagaa tttctttatt aaatgaaatg gccaaaatgg gaataagagc ctaagttaca 60
 ttacatatag catcaaattg acatgaaatt caaacatcaa taactcaacg agagacaagt 120
 tgttcacaca agtatcctta aataaatcta ttttgaatca gcgagcaggc tttcgtagcg 180
 ggctttgaag aaggcaaaaa gtgggtctct aggaggaaga acttctttca caacagggtg 240
 gctcatgaac tcttggtcc aattgcagag cttaggaaat ttctcacttg tgaataacta 300

caaccctgca atttcttgaa ccatatggac ccaaaatgct atgaagatag cagcaatatc 360
 taccatccca aactcctctc ctccaaagaa cttcttgccc ttgatctcac tctcaagaaa 420
 ctgcagagcc tccaacgatt cttcaacatt cttctcacgc tctttctcat caaccgtgaa 480
 aacagatttc catcacgtac ccccaatctt gtcacatg aatttgga 528

<210> 31361
 <211> 350
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400071h10d1

<400> 31361

atcagaagct tccgagcaat ctctcaatgg tattccgccg taaatccggc ccacagatgt 60
 tatagaatat actaaactcc ctgaaaaaaaa acttttcagg actaggacac acgtgactga 120
 aaaacttcct gatacatctt gcaatacacc atggggccac tgcatttatt tcacagcttg 180
 gaggcccggt gtaaacctcc atgcttacca atcgctctct caaagtacac ttgaaacggg 240
 ggacagcatt tgcgagtctc atttacacac ctgtatttac cccaagctat taatgcttta 300
 cttgaacgct tgcatagctg atacaggcct agagcacccc ttggacaaga 350

<210> 31362
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072a01d1

<400> 31362

atatataatc caaaaatga aacttggtat ttgatattgg cagtctacat tggacttggt 60
 cattattctt ttcctaagag aaaattacgt tttccggga aagctttgga aagtagcacc 120
 acaaccacaa cctcaatctc aaaacccaaa tgcagcttga catgaatcca tgccaaagaa 180
 cttaaactct tttgagaaat tccatgatgt tggatttgaa agcacagcaa acaactcgga 240
 aaccttgga tccagaccct ttggccagag cctcaaactc tttctctggt ctctctttcc 300
 cacctggatt atgtgccaac atgatcacat tgatgtgaac cacacctttt gtggcctagc 360
 tagagtctgg agccactgga agaatgcatt ctgccacaat caccttccca ttgtctggtg 420

gtgcctcgta gcagttcttc aaaaacttca agcagtgtc attactccaa tcgtggcaaa 480
tccacttcat aaaaatagca tcagctt 507

<210> 31363
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072a02d1

<400> 31363

catctaaaga acaaataaga taacatggag tcatggggag caggcaatta acaattgttc 60
tgccttggtg aattctgaga gaaagacaca cgaaactaaa caagaacaca tggttatgtt 120
taagaacagg agataaacct aaccaacgac ataagcatga gtcgtttgga ggaacacgaa 180
acacaagatt taattcagca acaaaatcat taacaacaat ctaagttgtg aaacccccat 240
ctacacatat aacctgtcca gtgatgtatg atgcagccgg aaggcaaaga aaagcaacta 300
atgctgatat ctcttttaggt tctcccatgc gaccaacaaa tgtttgagac actattccat 360
ttatagactc attcccttcc gaagaattca cgatacactc caaaagttta gtcttaacag 420
gtccaggggc aacagcattt gcacgaatat tatcctttgc ccattccaat gccaagattt 480
tggtgaattg attcatggct tcttttagagg ctgctttaac agagaacaca ggaagagctt 540
t 541

<210> 31364
<211> 507
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072a03d1

<400> 31364

acaaattacg ccttcaaaat aattagaaat tcaataagta caccaggctg caaaatgatt 60
tgggatgtac catagaaaat gacaagacta aaactaatac actaccagaa taggattttc 120
tattcacata aaaagactaa gctttgttgt taggagtttt ttttttaatt tcctgcaagt 180
actggcaagg aaccaaacct atgtacactt catgcaaaat ataaaactga tgataccaaa 240
caccagaatg ctatcaaaac tcaatgccac tatttatctg aacggagaag gaagggcgcc 300

caacggtgga gagaggaaca tcaactctta gaactagacc cgagttcccc acattttcat 360
 tccactttga tctttcaata gatactgaag caaaggcaga aggatatgtc atgaaagcac 420
 atccacaaat tagattaagt ttctctttac tgaatgaagg agttctgccc gaaccctgga 480
 tgcttcaca acagtggaca cacactg 507

<210> 31365
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400072a04d1
 <400> 31365

gaccagacaa taaaaatatg cttataaaca attggtgtct gaaataacaa gctattagct 60
 tcattagatt ggtaatccaa ttcaataatc acattttcga actgtgttct agtatgaatc 120
 ttaaaactcaa aaaattggca tcaagggcac attgccttga ttttatgttt gacagccatt 180
 aataatttgc atcaaaattt gggtcatcaa aaccaagtag agataacttc tacttgtggc 240
 agaacgacct gcacttttaa ataactaggc aaagttgtaa aaataaatta attacactaa 300
 aactgtagtt gggtgaatgc gctttaatag tttaatcttc aagctcaata atcttaacca 360
 cagatgcac accaagtttc tggccaacaa ctaccgggc atgtgactta ataactcca 420
 atgcttttcc atgatcaa 438

<210> 31366
 <211> 342
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400072a05d1
 <400> 31366

agcctacaaa gaccaacaaa cagttccgga acatatttgt ttcagctaca aagaaaaacc 60
 gccctcccc ctctaaacaa aaaccattgg caagccaaat aaaggctcca cgctttctct 120
 agaaaaaaaa aagctcctta tgactttctc cacctttatg aggacctatt gacactcggg 180
 taacggactt tacaccccca cttgaagaat ctcgcgaggg atttttactt aaatctacag 240
 ctgtggcgag tatagggtgg ggtttaacaa ctggatactg cctgatttac acctttaaaa 300

aagggccccc gctttatcgc aaaagaacct tttttacttg cc

342

<210> 31367
 <211> 483
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072a06d1

<400> 31367

aaaaaaagaa atcacaaattt ttgaaaactt cacaatctgg gtttaacatc aaattcctag 60
 ttccagactt tcagccattc tgcattgattc ataaccacat tcatagtgtg gctagtagaa 120
 acatgcatgc agcaacttct ataatgaata ggcacccagt ctttctctgc acaaggtata 180
 aaaatagtaa tacaaaataa gcaatcctgc gggttcacia tcaatctgta tagcatatca 240
 aattcatagt tccattttctt ttgcagagtt tatggctcag tattcccttc caactcaggt 300
 ttgattcctt tgtcttctga ggaggagatc tgaactgcct tcatcagcaa cgggccatt 360
 attagtgtgt cctacagctg gaggggttctt atagagttca ttattttcca gttgggctaa 420
 cttatttttg gattctccct tcagtagctc taccacctca agttggtggg tttcttcttt 480
 ggc 483

<210> 31368
 <211> 549
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072a07d1

<400> 31368

aaaacaatct gatatcattt ccattattct ttttttctg acacaaattc aatacatctg 60
 aaaccactat aagatgtgtt agcgaggagc taacactcat ccacagattt attaaaccac 120
 tacaagatgt gttagtggagg agctaact catccatata aattaaacca ctataagata 180
 tgtgttagcg aggagctaac acacattcac aaatttattc tcatgatag gaaggcaaga 240
 aaaccttata atttggcact gatcttctt gttggtcaac taggcattga ccaacatttg 300
 gtagtgccat tgcctacac acttaatttt acaagtcttc ttcacaccaa ctttgtatta 360
 tccttttttg ttttctatgc ccaatgcaat gcactctaga ataaaatata tcatgactg 420

gaacagaagc ctaagagtcc catgaactca tgggtgggta tcatttgaat gctgttctca 480
 atgccaaacca caccattgt gagggcgcta gcaaaaataa caccctgaga gggatgaata 540
 caatgattg 549

<210> 31369
 <211> 348
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072b01d1

<400> 31369

gggccaaacc caaaaaaac cccctttttt ttgggggtca aagggaacc caataaaaa 60
 attttttaaa aggcaccctt ccaaaaaagg gggggggggg cccttttttg gtttaaaacc 120
 aaaaaaaaaa aaatttttgc cgcgggggaa aaaaaaaccc ccccttaaag ggggtttcac 180
 tctggtattt ttaaaaagaa aaaaattttg gggtaaaaaa aatggaaaaa ccgggggccc 240
 aaaaaaaaaat tttcctgggg aaaaaaagg gcccaagtgg gaaatttttt cggggccatt 300
 ttatggattc ccccggggag ggggttttga aaaaacaaaa attttttt 348

<210> 31370
 <211> 423
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072b02d1

<400> 31370

acttcacctt tcaaattggg aggatgagga tgatacatat tttcctggg caaatgaacc 60
 aaccataaaa aactagtact aaaaactttt tataaacatt tacattaact attacccta 120
 atccattttt ttgcttctct tttttgggtt ttaataata tacatgattc ttgaaattgg 180
 ttttcatttc aaaatcctct cactcactca ctggtttgag agattacttc ttcaaacttg 240
 aggaagagtt gagcatctga agtgctcatt ggggggcagt ttactaagtg gggggttttg 300
 agggttgcat actcatccac gtagcatggc actttggcag atggatttga agcaggtggt 360
 aggtcaacta gttgcttttg tgggatgctt gatggcacga gacttccgag tacacgtgtc 420
 act 423

<210> 31371
 <211> 437
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400072b04d1

 <400> 31371

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 aataactaaaa tttctattac aaatatatct tgcattctaa ttataaagca gacacaaaga 120
 tgtaaacatt gaacataaca aatTTTTTaa tgctacacta taatgactta tttttatata 180
 caaaaaaata aatctgcaag ctttaagctct gctattgggtg aagattctct caatatctaa 240
 aatctttcta ttccatttct ttttaatttt ctttcaattc acaattcttt gcagccaaat 300
 ctctaacgta gtattcattt ttcccttggt aggtgtaaac atgtggaact gacaagggtt 360
 acatggacca aacttcacgt aggagttggt atctagcact tgtggcgggg ttgacacctt 420
 gctctttatg attatta 437

<210> 31372
 <211> 497
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmst02400072b05d1

 <400> 31372

 aacataaaca cacaatccaa ttaataaatt ttccacaaaa aaaaaaaaaa actcagtaca 60
 ccgaatttac aaacaaaatt gattgcaaaa ccagcataac catcaaagac catgtaaaat 120
 aagctataac ttttccaact aactgaagcg cctaaattgg aaaagagacc tatctcaagg 180
 ggggactaca tcaacaaatc attgccccct gtatatggca cttgcacaaa aaaaaccaat 240
 gcctttgaat gtcttgaatg ctcaagaagtc atgaattttg tggacaagca tgcagccacc 300
 agacaaacca ccattctcca acagaataaa ttggttttca gtaagatgag tgtcttcacc 360
 taatcatctt ttaatggact cgcatactcg gttccgttgt ccaatctagt caagttagat 420
 gaggcgctag atgacacggc atgaccctca ttgtaactgc tttttgatgg ggttctctga 480
 ggattgtaag ctgcagg 497

<210> 31373
<211> 463
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072b08d1

<400> 31373

aaccctcatc aattcggcctt gtgccatctt atcttcaatt ataattggat tgtatgtcca 60
aactttttctc tatttgacag tcacattcaa acaaagttca tacatacctc atcaatcttc 120
ccttatttta tcttcacttt aatcatattt tctttccttt cagtgtccca gatggcatct 180
tctatacaag aagatcatct tcaagataat tatactcaaa agtgaattca gtcttgattc 240
tttgacacca tccatgttgc atgtcatcat ttgcaatag gaaatcaaag tacacataag 300
ttccctgctc atattcatcg gttgcaactt tgggctcttc atgccgctga aaccatgtgt 360
tatactttcg gtggtatctc caagactgct tctttaactc ctttgcagcc aaatattgtt 420
ggtaagtatt ctgttgataa taaaatgcaa agaacagagt atc 463

<210> 31374
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072b12d1

<400> 31374

catccacttc agttacagat tgagctgggt gtgttgtagc atatccagtt tgttatggag 60
gagcatgata gtttatcaga acacaatatc attgtgaggg aggaattgaa acttgaaagt 120
aaagaatcga aaatctcgta ttcaagttat gagccccca ataaaggaaa actaaactta 180
caccaataca caatgtagaa gcaaaaaata gtgcacttaa tgtacctcat tcccttttgt 240
gggagcaaac ctgttctgca gtgccactgg acattgtgat tttgtgatac aaaaatacaa 300
cagagttatt ttcacatgcc ccagcacttg ataaaacttc aattacaatt tacattttat 360
tcttcaataa aattgatctc ttttctcttt cacaattttc tgtttaaacc attgccaaat 420
gttcaaactc caacctaaagg gtgccctcaa aatctgagag ttaaattggac atcacaccat 480
catgttactc atcaatatgt tcacttttca taa 513

<210> 31375
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c01d1

<400> 31375

ctgtaattaa gttatcattt atctctttat ttttttatca cccaaactga ccacattcct 60
 tcatcggaac cttcaatttt tcatggcaga gttcccctaa cattgggggg gattaacact 120
 gtaatatatcg ttttggtagc agtaatttga cttgacgccca gcctccgcgt gaaaagttaa 180
 tacgccccgag atgttcatt ccattcccgc aaatattaag cttccagccg ctggaaaatc 240
 ggtggaaaag gaaaacaaag gggtgacaga gtggctcgct agaaattaat gaagtccaat 300
 gagtcagaaa cacaaagtta gcattgcccc caccgcaata tttccgatcg ttgacacaaa 360
 caggagaatg ttgaaattcg aagcttcagt gtcttgctt tgacgaaaga caca 414

<210> 31376
 <211> 268
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c03d1

<400> 31376

gaattagaca tatacagaac gaatttcaca gtttgacttt ctatctaggc ctacactttt 60
 ggaatgttac ataaagaaac acggcactta aaagaaaaag cagaaggctc tcgtgtgatt 120
 tacataaaat cacagacagg gtacagggtg tgcaagggtg tatatattta attaatcgat 180
 gagacaaaaa taatgccttt agacagcaat cctctaactt tcccactaat gagaacaata 240
 atcaagttgg aaggactagg atgaagtt 268

<210> 31377
 <211> 229
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c04d1

<400> 31377

ggtgttgggg ttaaacacaa acggaattt ctttggggg tcccccttta aaaaataacc 60
 cattgaaccc cggaattta tgaggaaaat attaatatat agggccgcgg gggtttaaaa 120
 tgtctggctt taaaaaaacc cgttgcttat aactggggcg gaaaacggac ttctaaaaag 180
 agtggaaaaa agagcgaaaa aagttccggc cttgggacat gccggaaaa 229

<210> 31378
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c06d1

<400> 31378

gagaaagaca tcaagacttt aacattgcac acattgtaaa atgtagacaa tgtaactcaa 60
 aattatacag gataacaatc caatatgaac aagataactt attttattat ctcaactctt 120
 agcttctctc caagtggaga atgcttaggt tctcagggtg tgtataagca ggttccatca 180
 tcacttcttg cagttgggtc gaagtttgag gcatttggat cagtacaacc ttcaggaacg 240
 ggaatgttta cttgctgagc tgctttgcc aagaaagttc ctctgttgat ggaatcttga 300
 ttagcatcac caagagcagc ctctttcaag tacttgtctg ccagttgtac tctcttcaca 360
 ttctcttggt cttggacaag catgttacca tactccaaga gcttgctcaa agtcattctc 420
 ggttggtcaa aggttggagg tccttccttg gagttcacia gcttcttccc aatgaagtca 480
 acaccaacaa cagaaatcca ctctctcacc taatcatgat atactctagc cct 533

<210> 31379
 <211> 520
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072c08d1

<400> 31379

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 caaacaataa aataaaataa caaatacaga gctaacacat ctacttgaca atttatacat 120
 ggactctacc aggattcttc attaaaacaa cttttccaaa tcccagtagt tcctagggta 180
 gaaattaaac ttgcacatgt gtacaaagac ataaaatatt ccctatgcag ctagacactg 240

ctagatagct ccatacttgc ccaatttgaa attccaaata tgagaataac tacctggcat 300
 gactgttacc atcctcttct gatatgttaa acaagaactt tggaagagat gcgattctag 360
 gaaggtggag aagcaaatca ctaaacgagt ctttcctaga catgcctagt gcttgcttgc 420
 ctccagaagc gtactttgat tccttcacag caggcttgac atcttttcca tcacaggtg 480
 cttcaacagt attatcttca gtaaaatgag aattctgaac 520

<210> 31380
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072d06d1

<400> 31380
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 gagacagaac agttgaacta tttttagtTg tttatctata tgaatagctt tttatttgta 120
 aggattatta tgctacttgg taattgttct gtctagggtt tcgctggagg gagagagtgg 180
 tgctaagacc atgtgctgat gtgcttactt gtgaagtTgt tgttgTtaaa tgtattgttt 240
 tctaaaaatc tgtgtctttg tgtatgtgct tgacattatc ttgtgttttg aattataatt 300
 gtggcttgct cttgctttga ctagtctgaat tttaggtaag attgcctacg tagggacatg 360
 attagtctgt atatatgaaa ataaattgtc tccttggaaga gtaaaaaaat atgtgctagt 420
 gtctgatcta ttcaaagtgt 440

<210> 31381
 <211> 384
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072d08d1

<400> 31381
 aaggggaaaa caaccaaaaa actcacccca ctgggggctc tacataaaaa atttttttaa 60
 aacccccggg tccataattc aaaaacttta acaagagctt tggcccaaca gaatcaattt 120
 acatatttca acgagacata caaggatttt cgtaatttgc tgggactggg gtgttcaaca 180
 aattgcacaa caaccgaaac aagttgaagt tggctgcaat ttgaaaatgc atgacagtaa 240

acaaacttgt ttttggattt ttttggactg cattcaagtt ttcaccccaa agacaaaacc 300
 attgctgtat gaaagaagat tgctaaaaac tgtgaaattt ttcacaggtg accggaaagg 360
 atttggagtt actggatgtg tgat 384

<210> 31382
 <211> 582
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400072d12d1
 <400> 31382

acataacatt catgcataac acggaagaga ggattagtca ttcacacagat ctgggtagaa 60
 caatttataaa acaaagtctt tgagcaaatt tatacggatt taaaaagaga aaaaagggtt 120
 gtcattaatc aaaaaatgcc cgaacttaat tcttgcctta tttggcccat ctagcacgtt 180
 caagatggca tttaccatac agctttgtca cccccgtaat ttttattgac ccatgaacct 240
 gatgcacat ctgctgctta tttccaacta gatgcttgac ccttgactgc atcacttgat 300
 tgacccagct ccttacaagt agtggttgaa ctagattcct tgggtccacc accaccctgg 360
 atattggtcc cttcagttgt agattttttc cagctagcct ttgcagtttg cgatgacca 420
 ttgctgttcc aattattgat acctccacca cttgctgaac tccagcttg cttatttcca 480
 gcttggttcc agcttgatg ctccttatct gcattcccct gggtccaagc ctgagatcca 540
 ttatcattag ctccacttgc tgaactccag ctctgatttc tt 582

<210> 31383
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400072e01d1
 <400> 31383

caacacataa atgatatagt cattcgtagg caaacaatt tacacaggct aatagacgcc 60
 attgttgcca atttccccat tccggtaata caagtaatta cgcaatcaaa agacagtggc 120
 agaagaaact aaggaagaag cttacatata caagacttgt caaagattgc tagttaagaa 180
 gactcaatgt ccacaccacg atgttgtatc attttaagag caacaaccac cattttggga 240

tgcttgggat tcttgtttg gttttaaaac actccttcta actgctgttg atccttcttc 300
 caaaagacta ggggcttcca ttatcttttag agcaagttcc tcaaagcact gctccacatt 360
 ttcccttggt ttagcactac attcaagaag caaacacccc aatttttt 408

<210> 31384
 <211> 306
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072e04d1

<400> 31384

gtcaacaaaa ccagtttat acaatgtcaa caatcaacaa taagcgtaca cattaacgag 60
 tcaatctaatt ttgactgcat cacaatttta aacttacacc actcgttcaa agccaaccca 120
 tattgatatt tgaacaaatt ttgacaaat aagagagatg ccttaagcac caatcttctc 180
 ttcttcttc tcttctcat actccttctc atcagcagta gcacctcgtt attgctgata 240
 ctcagcaaca agatcgttca tggtactctc agccttggtg aattccattt tggccatttc 300
 cttccc 306

<210> 31385
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072e06d1

<400> 31385

ggaacaaaat tgttcccaat ttattataga aaatatgata taaaatatgt ccaaatttgg 60
 tatggtctat atgagaccca ttgaacaatt aaaaaagagt gcctgaaaca tattatagag 120
 tgctgatgat tgtcttcaat tcttcattgc caactctgtc ctctttttcc ctcagagata 180
 gaccactcat tctgaacca ccaccacctt gcctttttta gaaatgttaa atgaatgagg 240
 gacattgttg gaaatgaaga gatacatttt gaggggaagg ctctgaagtt cagcaacatg 300
 catggaagac taattaccac agtaaataaa atataagact tcttttttgg tttgtgaaag 360
 gggtatttta ttaaggagag gtgccaacaa ttccgacaat gacccggtta agtggtgaca 420
 atttcatttg ttggccttgg gttctgctct tcttgaagag aggctctggt ggtgaatata 480

atgatg

486

<210> 31386
<211> 405
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072e07d1

<400> 31386

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aaggctcagt aaataaaaaat aaataaaaaa tagtgcctct catagtgata gatagataat 120
atacaaatgg aaaccgatca ggttccaccc cattagtagc tatattatca aatattcacc 180
actgaaaagg aaccaaattc cctaacactt ctttttttct ctcttttctt agaaggagga 240
acagaacata aacaaacagg aggctaaagt ggggggtttt gcttctggat gattccaagt 300
gatgaaatta caagaacacc cttgtacagt gtggcaaaat ctcatcaca cattaaaaca 360
aacagcccca aaagggtttt tttttttccc aaaaactgtg ccact 405

<210> 31387
<211> 315
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072e08d1

<400> 31387

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ctaatagtac taaagttgca ctttttagtca atgtttccaa tgcttactag gcggtgaaac 120
cacaacatca gagcaagata ttgcagaact aagcattgtc aatgaatgct aatcggattt 180
cccaaaggaa actaaaatca gttttgttgt tgtcagactt cattctctct aaaacaaatt 240
gaaaaactcc atcaccattt aagattcaaa ctcttgagga agaaatatgg aggattcaaa 300
tgcagtcatc atcat 315

<210> 31388
<211> 569
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400072e1161

<400> 31388

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ttccattatg aagcagcttt ggctctctaa aacttttaaag caaaaagggtg tttgggggaa 120
gggggaatta tgatctcaca tacaagggga aaaaaaccct tcaagataac tgcactcgca 180
atcttttctt acatcaaggg aaaaaacaga caaattgggt aacaatcaac taataaaact 240
ctatgggcta taataaaaat tgctgaagga agcttattgt ttactgaatt acaaagtact 300
caagcctcca ttaccacata aagatagaga ctgaattcct caacagccac cttatacttc 360
tcaattcatt ttagaaaatt gaaaacctca aggtattact tgccgcaaac aagttgtact 420
cctcaatgac agtagcctct tttttattgc attcatgac atcgtcaact tgatctactg 480
aactctttaa gttaaaatct ccaacattgt cgccatttga agatgcagtt gccgatttat 540
gaccagttga aggtctacag ggccaccaa 569
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<210> 31389

<211> 568

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072e12d1

<400> 31389

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ggagaagata aaaatgaata tcgccattaa taataaaaaa aagcatcatt aggtgtatga 60
tacatagata gggtaagtaa gcaaaaaaag agttgcaggc agagcttgta atgtatgaag 120
gaattcaatc caaagcattg ggcccagcac aagccttcaa aacggggctc caaatccact 180
gcactagaaa cttccgtcca ttctaccgt taagattaaa ggttctccct tcaccatctt 240
tcataacgga accaatataa ccgtcgccac caccggttcc gtacaacccc tggcaciaat 300
ctccgatctc ggttggcgcg gtggggtcct cgccggcgta ccacgcgttc accagcgggt 360
tcgacgagag ctccgccagc ttgtgccga tcacgcttac catgccgttc acttcgacgt 420
ctccgttcgg cggcgtgagg tggccggggc cgtcgacgcc catgtagccg ggaacagcga 480
aaggataagc gcaaacctcg ggacactggt ttcttgagtt cccaccaag gcgttaggga 540
acgtggtacc caccttggat ggaaggtg 568
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<210> 31390
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072f02d1

<400> 31390

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 aatatgagac aagaatcagt ttaatcccat aacatattaa agtccttaatc atgacgggtg 120
 cacagacgat gacggtctat tactttccct tctttttctt ttttctcttg gctggaaatt 180
 gtggccaaaa tacagttctt ttttcttct gtctacttga atggcgtaag ctgggatcaa 240
 atcaatttga aaatgttttg tgggatacaa aataaattta caaccacaca cacaaactga 300
 aacaagaaaa gaaaatcatg ggactgaaac gaaactggcc ccaaactaat gaggataaaa 360
 aagagaactt tagcccagat aaatagaaga agcttcaaga tttgcaaagc cagtcttgga 420
 tggcaagtcg aagtgcgtaa ttgggagtaa gaaacaggtg acttaatttc aaattagtca 480
 tgggagaagt atcatg 496

<210> 31391
 <211> 325
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072f04d1

<400> 31391

caaaaatatt aatcaaataa taataataaa aaaaagtgcc tctgatgtgt gacttaattt 60
 actagaccac agaaaatata cagatcaaac aacatcaata tggggacatc tggcatcatg 120
 ttatttacag caacatagga gagggccaga ttaatagatc ttatagcatg gttgatccat 180
 tgtagactac aatagcttca cgaaggcacc taatcaatgc tttcaaagac cataatagta 240
 accaccaacg cttatgtgag ctttgctcat aggaacaact cttgctgcgg aaattgcata 300
 attcaatttg ggcgcatgct gcacc 325

<210> 31392
 <211> 393
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400072f07d1

<400> 31392

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acacaattca ataccattca tgtggtaaaa ttcaccattt tgacttaa at ctgtagtaaa 120
ggaaaaagtg agacgccacg ctacttccag tgtggatttg caatacccta taaaatgtat 180
cttgtacgta caaaaatctc ctgagacagc cctttataag gcgtacttaa acaaaagctt 240
tcactatgaa tggactttac aattctgccg cttgttacca cagtgtcatt ggctggaacg 300
agcataccaa tgatacaaat tgttcaatca atgcccacaa cttgaataan ggttcaattt 360
ccacctgagc caatcattaa tgaacaccgc cca 393
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<210> 31393

<211> 64

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072f11d1

<400> 31393

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agtg 64
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<210> 31394

<211> 448

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072g06d1

<400> 31394

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gcatagaaat tagaatttcc accatttata taaattcaat gatacaagga aaaatatgaa 60
taaccggaat ttcctcttca ctatagaaaa tagacatata tgaagtaact tttgtgaaca 120
tccttttagta acaacaatt ggatagtgga aacctacttc cactttgtta ttgtttcccc 180
ggccaaatat gcaagcaatg atcatagtga ggaaaaatag ttaatcttgt ttttatatac 240
aaccacaggt ttataggacc ttaatgccat tgtttttcac aagctgagag tgggtgtcaa 300
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gaagagtttc caatgatctt cttgatctcc tgttccgtgc cctgccggat tctttcaaca 360
 actcttaciaa cctacgtttc tcatcatcca catcaggatt tgctgttcct agcttctctt 420
 gtctcatgcc aactacatat tccaaaat 448

<210> 31395
 <211> 56
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072g08d1

<400> 31395

cgcccttttt ttttattttt tatattattt ttttcttttt tgttttatca tccttt 56

<210> 31396
 <211> 574
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072g11d1

<400> 31396

atcaaagat gaattatatg attcaaattg cgaattgtat gaataaaaca taattacgac 60
 tcaaatttcc ctgcctattt catatacaaa aacaaaagtt ccctttactg caagagagat 120
 tgctgttcct ataaatatca ctagtacatt tttggaagtt cttctactca ggagtcacat 180
 tcccctacgc tcatgaaatg aaggaaagaa acagagtatg atagaaacca acttataggt 240
 ggccagctct agtaaaaaaa ataaaaatcc ttataggtga caagctgaat ttttttattt 300
 gctgtacgac gttgcatgcc tatagtaata gctgctagta aaccttcaac cgcacacctt 360
 gccacccgtg ctcataagct aatgaaacta tattgatcga tggacatcaa gtctataatc 420
 agaagcaact tttcaacaga catctctatg aatcacttcg cttccagtag atattaataa 480
 atcttaggat gcaaaccttc taacaattga tgactcctaa gaattacggt tgctgtctgc 540
 tcacaagaat gcactggaat caactcaaac accg 574

<210> 31397
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400072g12d1

<400> 31397

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gaagaaaaga tcgataaata aataatgatg atagtaataa tattaataat ggtagtctga    60
gtctgagaga gtgaagctat cgaaatgaaa ccctaaagga catgatctcc gagaaggcac    120
tatgaacatg atttcccacc actcactaat gagaataata aataataaaa acaaaatgtt    180
cagtgtctct aaagaaagtc tcgtgctcaa tatTTatact actaaataac aataatcata    240
aaataaaaacc ctaaccata cacaactacc ggatctacat catcaaggcg accgcagcgg    300
ccaaggcgac ggcggtgaca gattcggagg cggagactct gcagaggtgg gcgtggctgc    360
tggggctgac ggcgggggag tcggcgggtc cgTcgctga                                399
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<210> 31398

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h01d1

<400> 31398

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cacataagtt gctatatata gaaatacaaa actgcaagca agaatatcac cggaaaaaac    60
aaacggaaca tagtcatcat ctgtttcaaa ttaatcacat cttctcaact aatttgtctc    120
aaaagacaag tatcctgtaa aagaaattaa caaacttaaa tagaaggacg tgaaatgcct    180
gatacatgtt ggTtaaagag aaaataactc aataatagga ttgcaagtac ttgggcaaac    240
atgctataat ggccctecta ctctgatgac taatatgccc ttcttatcaa tatcactaac    300
gaaattgtat taccttcaca agtcttaatc taccagaaaa gtgatgctat aattttacca    360
aggaacttgg tgcaaagctt ggtacaatct tcatcacaaa agctgaaggt agagtaagtt    420
ggtagccaga ccaagaatat cagaaccagg gaaaacaaga agtggataga gttaaagcca    480
atgactgatt cttggaatca tacctttagt atagtttg                                518
```

<210> 31399

<211> 475

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h02d1

<400> 31399

aatcaaataa aaaaaatcct tataaactta taacagccaa acaggattgg attgcagtac 60
aaggaaacac aaaacatatg gcctcgact ttcccaaat ttatactcat ttatgccaac 120
tactatggga aagtgaaaaa tggcaaccaa aaaattgttc caaaaaaaaa attattagta 180
ataaaattga accaaattga atgcctcaat ccttgaaatc tctctcttat gccacagctg 240
gcatgtcctt gagccatgga tccagtggct tccaattga gtacacaatg aaaccaatat 300
cacgtagctt ctccacatcc acaatgttcc ttccatcaa aacaaatgct ggttttctca 360
tgttgtcata caccttctga taatcaagag tcttgaactc atcccactca gtgagaatgc 420
agacaccatc tgcattcttt tgttgccctg tatgcatccc aaaccacact aactt 475

<210> 31400

<211> 421

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h06d1

<400> 31400

aattaagcgt tgcttctgaa ggatccaaga gctttgattg cagaacctgt aaaaatgtat 60
tgatggtaga ttgcacccac cgcactcca acaaacggcc caaccagta aattcattgg 120
tcgttccagg ctttgtcgtt gttgaagatc acagctggtc ccaaactcct tgcagggtta 180
atgccggttc cagtgcagg gattgtaccc aagtgaacca tgaatacggc ttacccaatg 240
ggaagtgggtg ctaacacagg aacatgagag tccctagcgt tcctcttaag atcagtggcg 300
gaaaaaacg tgtatacaag aacaatggtt ccaatgatct caacacccaa agcgggtacct 360
ttgttgatgc catctgtgac agtgtttacc ccacctcctg acctgttgga gaacgatttt 420
t 421

<210> 31401

<211> 238

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400072h08d1

<400> 31401

atcgtccaat tcttgtacta tataccattc tttaaataat tcattctttt cactcaatac 60
 aataaatata tacaaatgcc aacaaagggt tctattatta catttgagga agaaaaaatc 120
 agggaaagag agtactatit aacaaaaact ttaactataa cagcagaatg gcaaaaaatt 180
 acaaaggagg ctgaatgcat gttgctggcc tcaacacttc tgaagcacat ttgtacac 238

<210> 31402
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073a01d1

<400> 31402

agaaataaat aaacaacttg agattccatt tttgacctct ctacgagtct atgacaacta 60
 aaatataaca ataataataa agataaaaat aaaacaaatt tacaaggcag ccattgtcct 120
 tacttcttgg ttcttccac tacactttcc aaaaattata tatatatatt ttttaaaaaa 180
 gtctctcact tccaaattta ttattatit tttattggac cttctttctc attctctacg 240
 ttgactcgaa caccaacccc accaccccggt ctgcgttctc ctgcatcgca gcctgaaccg 300
 cgtgctgtg cttccctctg tacgtcacta tcagcattgc aggatcgtct ggtgcgcgct 360
 ccacgtgctt cctcgtggg caccctctaa tcgtgctgca cttgtagtaa ccccttgggt 420
 atggggaacc cttgatcggt ttctgaccgt acttactgca cgagtactcg tccggtggaa 480
 tatcggcgac ttttgaacta atcgccggca ctcttaca 518

<210> 31403
 <211> 429
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073a03d1

<400> 31403

agactccagc atcctcatta aaaactcatt ttttgaattc agggagagga attcaattaa 60
 aaccaaagca ggtacactct gtaagtggat gtgtaagacg aacaactgga cagacacaca 120
 tagtagtaca atgtaaatca tcaaacaata ggtccaacca ccaggaatat taaaggtaca 180
 attcaagtaa gatcatcctc ctcaagttct ttggctttca gcttttcctt cacccttaag 240

atgtatctta aggaaatcta agcagtcata aataaagctc ctaacaagag ccagctaata 240
 aaaacacaat cacttggaat aaagatcagg ctccccatt aatcaagaca aatagcgact 300
 tgtctcccaa cctttccgc ccctttaact ctggcaattc aatcacacaa gcacactcca 360
 caacatgcac cccaacacgt tctagaagct taattgcagc acctaacgtt cccccagtgg 420
 caataagatc atctatgatt agggctcgtt ctccaggntg tacaaccctt acatgcatct 480
 ccattttgtc tgggccatc tccaaagaat actcttctga gataaccctc ccaggcaatt 540
 tattgggggtt tctcatggg gac 563

<210> 31406
 <211> 436
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073a08d1

<400> 31406

aatataaata ttgtgtcatt tttttttgtt cattcgggat gggtaatata ggcaacaaaa 60
 ctagcagaat ctacagcttc caagagaagc atttgaacat gggaaagtgc tccgaaacta 120
 aaacatgttg agaccaacac acttcacgtt tagctaaaat atcaacattt ttttaccttt 180
 agtatggtag aagttaagca gccaatcttc attcttgaaa gcccctatat attataggtg 240
 catacggatt gctacctgtt ttaggccttc cttggtagca gagaccaact tctttccctc 300
 aaattcctta agctgaccaa cagcactc atcaattgca tcaaccatgt tgagaacctc 360
 atacccttc ttcttaagct tttcaaggaa gggggaattc tcgacaactt tcttgctttc 420
 accagtaatg tagtag 436

<210> 31407
 <211> 536
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400073a09d1

<400> 31407

ggaacaaaga atttgattta ttattaaggc cccttaatac acagatacat tatcaactat 60
 aaaatanata cttaaaaaaa aggacagaag tcagtaaaga atctaagaca taaaccattg 120

catattttac atagaccatt caaatccaac tcagaaagt accattctct tcatctctta 180
 aaaccttcaa cgttttacatt cagcaggaag accttgtggg aatcgcttga gatcactgca 240
 gtagttatag atcatgaagt acttctgaac ccatctcagt cttcttctgc tataagcatc 300
 aagctcatth gcctcatatt cagccccaga atttgaaatg gaagacttgg atgagaactc 360
 aatggccttg aaattgcggt agtatgctgt aaaggggtgt ttggaccaat cagttttcac 420
 caatccttct ctgggtggccc agtcatcaac attccagagg ctaaaataga ttctcatggg 480
 ctggtttctt tgaaaaggaa caccaagagg gttagcattc ttgaataccc ttatgg 536

<210> 31408
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073a10d1

<400> 31408

gttggagtga catggaaact gtcattctta tggatttga aagggatcac aatcaattag 60
 ctatatccat atgtacaagg aaattaaaat taaaaaaaat cattattcca tagttttggc 120
 agcagaatgc tagctaaatc actagcctat gaggaaatta acaggcttct gattgctagc 180
 atacacttcc ttagattcag acagaaactg tgattttaaa gctaaaagca aaaaacaaaa 240
 gaaattgagt atgtgaccac aaggaactgt caaatttata gagttctcca atcaccacat 300
 ctcatggtaa aagcaacaaa caagctaaat gtaatatctt tgcattggga aacacaatgt 360
 tttccatgcc cccttgactt tttctttcat tcaattcaca tgctgcctaa ttgtcataaa 420
 agcgggaacg gcatctatgg gatctgcgat aaccactgct accccttgaa gagccactag 480
 tactaacaat ctcatcatcg atccttttta tcctataatc tgcatactcc atagatacta 540
 cagaacc 547

<210> 31409
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073a11d1

<400> 31409

gagaaacctt aaattgaagc aaaactgaga tgtgggtctg ggaagaaaag ggaactcaac 60
 aacatttatg tcttaccctg accatattcc cccaaaatat caaacgcggg aaaaataaag 120
 cacaaggagg aacaggcttc aagggatata tgaccgtatg aagaacaacc taaatttaca 180
 cttttaaggc ataaaattaa atgaaccttc taatccagga aatccaatta ccatagtctc 240
 tttcctgctt aagttcaaata aagagaacctt aaaattgaaa ataggacaga gatatgtcaa 300
 aagggttctg ggaaggcttc acttggcact caagggtggg aaatgcccgg gatcttcaat 360
 ggatggagca ggtgcattgt tgggtggcact ttcattgtaa cccgctccgc ctctgaacc 420
 acggccacgg cccctaccac gttctgggtt atagtatgcc tccccctca gcag 474

<210> 31410
 <211> 348
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400073a12d1
 <400> 31410

aaggcatatt taaaccctt ttttgctaaa caaaaaaaaa ccccaaaggg aagttcttta 60
 taaccctttt tcactacaca accagaaggg tttaggactt aataggcgta ctacctttgg 120
 cactggacat atgccccctc acaaaataaa aaattctccc accaaaaggg atttaagggg 180
 cttaaggggg aaccccccg atttttgggg gggggggggg aaaattccaa aaaatttttt 240
 ttttttccaa agaagtttgg aaaccctccc acatcatgta ggggaacggc ctggaaaatt 300
 tctttaaagg cctttttttg gaaatttcag ggttaaggcc cccgtgtt 348

<210> 31411
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400073b01d1
 <400> 31411

cttcgaaatc atcactctta taaccagaat gtttggtgct tgccaaaaaa aatctaattt 60
 ggcatattac aagagacttc acgaatcatg caagttcaga cgtacatacc aggtggcaaa 120
 agaaaagata ttttacacac aaaagacaca ttaaattcag caaatccttc tgctgtttcc 180

atccccgcca tacacaaagg ttgatgaaac tggagtgggt tttatctggt gatcgtgtag 240
gaagcattga ttggaagaga ctttttttct tctcagtgtt ggtctccttc acgtaccatt 300
cgttggagaa gatgagtcac ttttcttctc cccgttggca acctcagcat gattatcctc 360
atcacttcca tcttccagag aagccttttg ttgcagctct ttgaccttgc ggaattcatt 420
atagtgggccc tttctgtgct ctttgaaact caaacttcta tcttctcat cctcttaagt 480
ttcttctgcc tcctcctc 498

<210> 31412
<211> 539
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b02d1

<400> 31412

aaaaaggatc ttgggattcg aaattagagt ccgctgtaaa aacagcttca gtacaataaa 60
aatttcataa gacatatagt aactactata tcttggattg ctccagggtta catacggaag 120
tggtccataa ttacattata aatgcgttat gcataagtcc gtgaacttgg atcatctatt 180
gaatataggt atttacatta ttatgtatga ttatgattat cattattatt atgcttggat 240
tctccatgga attacacaat acaacatctt accaccaggc ccttttgatc aaccctggct 300
tcttcattgc cttcaggagg ctgagttagc ttcctatctt gaggagacat catgtctctc 360
ttcaattgaa tcaaaacgtc ttccattgta tgcttacgtt tccaattagc tagcttagga 420
aacaaatgtg gcttaaccgt tccagtttct tgattgacac atgtcatggg aatccttgtt 480
tgaaatctaa cagatggggg attggctgga taattccttg ccacaaaaca atttcaact 539

<210> 31413
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b03d1

<400> 31413

ggggttgggg tttttttttt tttttttttt tttttctttt tttttttaaa aaaaattttt 60
ttgggaaaaa aaaaaacccc cccccctt tttttttcca aacactttaa cgggtaga 120

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cccccccca aaaaaaaaaa aatggggaaa aaaacttaat tccaaagggg gttttggggg 180
caaaatcacc ccccccaaaa accctggttt tggccccaca cattggaaaa ccctttttta 240
aaaaaaaaa ggggatttcc ccaaataaat ttcaaaagtt aacaccaaac cccttttttt 300
ttctttttta aacccaatc aaagctttct cttttaaaaa actaaaatta aaaaagggtc 360
ggaaaccccc ttataaaac aaaaaaaaaac cccaggatc ccccccttg ggaaaaattc 420
ccgccaaaaa aggggggaac caaaaacccc ctttgcccca aatccgatat ttt 473

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<210>      31414
<211>      382
<212>      DNA
<213>      Glycine max

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<223>      Clone ID: jC-gmst02400073b05d1

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<400>      31414
ggaagggaaa aagggggatc gttaaattga attgatgggg gggaaaaccc caatttaaag 60
attccaatc ataccaatt ttgccccaac aaaaagaat tttaaaaaaa aaagactttc 120
tttttttact ttttttacc aaaacctaag caaaatttaa aaacaaacga cccttttttt 180
taaactcttt aaatccaaaa gctgatcaca atcaaatca agggcggttat ttatgaaagc 240
tccataagac ttcaaacgac caaaagccgg gttctccatt gatgttctct tcaaacatga 300
atttactctt caatagcagg gggcacagac tcagccaatt tgcggtactt gagagcataa 360
aacatcttga ggtaacgttt gc 382

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<210>      31415
<211>      483
<212>      DNA
<213>      Glycine max

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<223>      Clone ID: jC-gmst02400073b06d1

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<400>      31415
ggtaaagcaa ccattatcca tttcacctct gcatttcaga gttctggaag agttacatca 60
ctaataaaaa tatacacacc accctaacct tttagaaggt cccactgccc actacaaaaa 120
accaagccct accataaaag cgcttccatc acgttccact aacccccacc aattgacaca 180
taaaggaaga gcatatcaag tgaacttcga caattttctt ccctttacat gaaatttatc 240

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aagatggggg ttttgcttgt gttttgaagg gcattgacat caaacctgt ctagacaaaa 300
 gttgaaagaa cgacaaaaag gagaagacta tggcatccta ctttgaatgc aactcgatgc 360
 gaaccaatga ctaagattaa gggggtttga aacagacaaa tttcgtgtgg gtcctagacg 420
 tgtgttaggt gagcccttga tgggaccact ggatgggtgca tctgtgccag aggtctgtct 480
 atg 483

<210> 31416
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b07d1

<400> 31416

ccccaaggga aaaaaaaacc ctcccctttt ttattacaaa aattttcccg tatccaaagg 60
 gcaatccatc aaacgggttt ggaccctttt ataaaccttt taaatgttta aaaaaccctt 120
 tttttgccag ggggataaag gcccaaaatt gggacacaaa aacaaaagtc cagttttggg 180
 ataacagggg gggccgggac cttccaagga aagtttaaaa ggcaaggacc gaccccaaaa 240
 gccctttttc tttaaagtct aaaggggccc aaaaaaccg gaggcagggg ggaaaaccct 300
 gggcattcaa tttttacaaa agtttttttg cgccaaaaac aaatttttac cgggttaaaa 360
 cattccggga aagggaatcc cccatttgg ggggg 395

<210> 31417
 <211> 369
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b08d1

<400> 31417

ggggtcacia ataccataaa ttcaaaataa aaacctttat cagcctatct aaaccgggtc 60
 aagattaaaa ttgtcacatt tgcctaaaac attttacaag gacaaaattt tgcaaaaaac 120
 agtaacctgg gttttaggag agaattcatt ttcaattttt gaataccatg aaaaccaagg 180
 ggaacaattt gcctgttaaa aaaattgatg ctgctggggc ttgggctgat aaaaatccct 240
 aaaaagggcc ccctttatct gcccttggca cctcacattt ttttattttt gaataggggc 300

tggggtatTT ggacaggatc ataaatggTT tttggttagg catccctact aataaggagt 360
tcttactta 369

<210> 31418
<211> 474
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b10d1

<400> 31418

cgaagaggta atttatttaa ttcattaacg caataatggT gagggttaatt gataagttta 60
aagaagaaat gcttacatgc atccccacgg ggataaagtt ttctcatatc ctggcttcct 120
tactataaag gtcaaaaggT tctgtttcca gaaagactga tccagatgta acaaaggata 180
gtcttttttt tttttctaaa ccgaagttgt caagaaaaag ttgacatcat ctcatgcata 240
aagggttccc accaatctgt gcaaactctgg ataactcatgt gagaaaagca agaagccaca 300
gaatccaggT tttaaatttc atactgagct cgatcaccat agttttatttt tgatccagaa 360
aagtacgaag acaactccaa aaacaatagc aacagggggc cacttccgaa tcagagcctg 420
ccggttttaa tctctagcct tatcagcata tatgcgagat tctgatgata agcg 474

<210> 31419
<211> 510
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073b11d1

<400> 31419

cagtcatgaa tttaaaatct tcttttcttc tttgtcaaT tcagggtgca ttcaccaaac 60
taattgaatc atgaatccaa aaaaaaaaaa atgaatccac aaatatttct tttgtacata 120
gtcaaatcaa tctacaaaat attcttatga acatgtgggt caagcacgcg aagagcgaaa 180
taatcgcttg atgatggcaa ctttggggag ggaattcctg ttgttgatgt gagtaatttt 240
ccgagtggta actttcccta ttgatggtaa tctgaaagta agtggtactt tcttttccaa 300
aacgttaatc accacagact ctgtctctac attcatTTTT gcaataatgt cagtaaccct 360
cttctggcac ttctcacatt gcatgtctgc agagagaaca acctcctgaa cctgaggcat 420

ggacaagaac tccatagaag ctagactagt cccactccca ccaagaggaa aaccctttga 480
 tttttttaca ccaacaacca ctccttgaag 510

<210> 31420
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073b12d1

<400> 31420

gagacaaaca aggataaatc ccccttgaga tcaattaatc aatagctggt cgaagattac 60
 aaatcacaga catacaaagg catgtagccc tccctgtgat ccccgcccaa tattttgaat 120
 aaaccaacaa cacattacac aacttatggt tgagaaccaa tatttttaac aagttaacca 180
 acaacatatt acgcacggca atttaaagca aacataatgg ctgataatta accaaggggc 240
 cacatgcaac acaccacaca catcacaact ttatttagcg tgaaccactt agggatcatt 300
 ttaacgagcc tcaacaagat gagcctccac gttcttgggg agtttaacca ccaaactttt 360
 gtacttggtt ggctcagggg cagtgtgatc caccttttca tacaagaaag tccacttcac 420
 aaggctgtgc tcatcacctt ttggtaaaac atgaacgata accttgtagc tcttatagta 480
 cttcaacatg aca 493

<210> 31421
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c01d1

<400> 31421

aatccaaaca attggaactg acttccatac aagctaaatc aacataagca taacacaaaa 60
 tgagacaatg atggagaaaa ggacctggtt acagtcgttt ttcgttactg gacaagtctg 120
 ttttattcag agcagagtca caagcaagtt caaggggaaa cttagtttaa cttgagtaca 180
 tgcattgatac aaaatgagct ttctataaac atactagaat tatgattgca gcttttttta 240
 acaggactag caaaattatg cttatttgca aaccctgtgag gtccataagc ttatcaataa 300
 ccttccgata tcttttcctt ttcctataag gtctagcaaa aaattgtccc agact 355

<210> 31422
 <211> 451
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c02d1

<400> 31422

attgggaatt ctagacaatt catatagtac ataaatatca gatcatttgg caaagctgag 60
 atctgatgtc ttagcacata catgacactc atccgtcggc ataattcacc acagcatttg 120
 aagaaaatga ttcctaaata tgcaccagat agaaatatga acggagccac tgactgggtc 180
 taaccgcact taaagaacca taacagaaat catgaaattt tgacatcaga tgagataggc 240
 agcagtatct tgcgccacat attatggtag ttatggaacc gactgagatc tacacattaa 300
 gcagatatgg accggttata gtcagctgtg caaccatcat ccgaggggtga catgcctcaa 360
 gcttcggcct tgagtatatg tcgcagaagt agcagctatc aatgcctcca ctaattaact 420
 accatgaagt ggtaacagca atgaatgtac a 451

<210> 31423
 <211> 415
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c04d1

<400> 31423

gaaaaaagca agtaacatta aggggggatgg ggatacacaa gataattcac attatctgaa 60
 gtacattgca ataacatata cttcaccaaa cacaatttta aaaactctca aaagtccaca 120
 agtcatcctt ttctttcatg ctcaattgcc ggggaccaa ttggtggcgt aggcccaagc 180
 attgttgttg actgggtccc caaggggatc agcaagggtc tccaatggac ccttaccggt 240
 gacaatggcc tgaacaaaga acccaaacat agagaacatg gccaatctcc cgttcttgag 300
 ttccttcacc ttaagctcaa caaaagcctc tgggtcatca acaaggccca atgggtcaaa 360
 gctgccacca gggtagattg ggtcagtgc ctcaccgagg ggcccaccag caata 415

<210> 31424
 <211> 535

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400073c05d1
 <400> 31424

ggaacaaaga atatgattta ttattaaggc cccttaatac acaggtacat tagcaactat 60
 aaaatagata cttaaaaaaa aggacagaag tcagtaaaga atctaagaca taaacatagc 120
 atattttaca tagaccattc aaatccaact cagaaagtga ccattctctt catctcttag 180
 aaccttcaac gtttacattc agcaggaaga ccttgtggga atcgcttgag atcactgcag 240
 tagttataga tcatgaagta cttctgaacc catctcagtc ttcttctgct ataagcatca 300
 agctcatttg cctcatattc agccccagaa ttgaaatgg aagacttgga tgagaactca 360
 atggccttga aattgcggta gtatgctgta aagggtgctt tggaccaatc agttttcacc 420
 aatcctcttc tgggtggcca gtcatcagca ttccagaggc tagaatagat tctcatgggc 480
 tggttctttg gaaaaggaac accaagaggt tcagcattct tgaataccct tatgg 535

<210> 31425
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400073c06d1
 <400> 31425

gataacatcg aaaaaaactt tgatcaaatt aataactggg gcaaaagaaa ccatcaaatt 60
 cctttgagaa aaaggaacaa tagcaaacct agctcattaa tatacatata cgattaaata 120
 aacgacacag atcgatgttt atggccaaag ccaaaattaa ccacggttag tagacagtca 180
 acgatttgat tccacagcta caacaaaata gcaagtgtta acaaaattac ggaattaaaa 240
 accgaaacca aagcgatcgg atgcggatca gaactacaaa tccaaaagag gatcgtaaga 300
 tcaaacggtg ccgccagatt tggagcggta gagtttgccg aacacgtgga gcgcggtgac 360
 gaagccgatg aagcagaggc tcatcaccag caccaccgtc ggcgaaatct tcagccccgg 420
 agcatcgccc gtgtagaacc tcagcatgtt gctggtgccg cctacgacgc cggtgctggc 480
 ggagctg 487

<210> 31426
 <211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c08d1

<400> 31426

agaaggaaat atcatttgggt ataaccaatc gggttgggtca gcaccagcat ttaataaaaat 60
 ttacagtagt taatagtttg tttttaaggt gcaagaatca cttggaagta caaaatcgag 120
 aagaaaatgc tactattaca aaatacagag agacatcacg gatgagtttc acatctccca 180
 gcatcaaaac ccaacaagaa tttgtctctt caaccagtc tccttagcat ccccggttgta 240
 ctaatgtgca gatcccaaga ataagatgac atcatttgaa accaaggaaa acactatgtc 300
 atagtaaaaa ataaacgaaa caacctatag atatgacaca aagaaaaaag tgaaaagggg 360
 tatcagtaag gagtgtgata ataccgggtt ggaggtccca ttccattaac tgggggcatt 420
 ccataaggca tcatgggcat agga 444

<210> 31427
 <211> 332
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c09d1

<400> 31427

acgggaaggg aaatttttat attattgtaa ccaccaaaaa aaacaacaaa gccccactag 60
 ttgacgcctc ccaactttgt taaacaaaca ataccttcaa aacattcact gaatttcaca 120
 cacacacagc tgaacacacc acgttttaaac aaaagaaatg ggctccctta aaaaaccatg 180
 attcaccaaa atgaaccctt ggtgaacatt tccgaatttc aaccttcac taaaagcccc 240
 cccggccaaa caagccccac ccaaattgga atcaccaaaa atgtatgtat caccggaag 300
 cgcaaaaacc ccacccttga aatggaaaac ac 332

<210> 31428
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073c12d1

<400> 31428

gggcactcta aaacatcagg atttcggaat ttatatagct ctttaaccat aattccctgg 60
 atacaacatg tatactaggg tatacaccat attcaaagat agctaataaa tacttgactg 120
 ggtaattaat atcacacaaa cgtaaagggg caatatatag ggcaaattatt tataagctta 180
 atttattcac agaaaccatg agtttaaagc atctttatac aaaatattcc acaagaattt 240
 actttattac cacatcatta taggaaaagg tcatgataaa ggggggaaat tctattgaat 300
 gcttgggtca agatgttttt ataggatcaa agggggtata taaattaaac cttttttttt 360
 aatcaatata tatatattgg tcacacattt tatatatata tataaaaggg gcttaacaag 420
 ttggataggc aataccacaa gaactaacgg tttttt 456

<210> 31429

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d02d1

<400> 31429

actacaatat atggttttgt tgtatcatca aatgaataga ttgcaatcag acccaacttt 60
 cctcttttaa gactatgtac acagataact cttctaatta aggcaaacca ctcaatagca 120
 gtaagaaaat aaaagcatgc acacaagtgc aattaactct tatcattggg acatcaacat 180
 ggctctcca cagagtctta ttagcattcc accccacatt gtttgagcac tggaccagtt 240
 tgcttgggca agaagggatc aatcctgacc caaatcaatg agaaaataga tgctagaagg 300
 attgaccaca aactacaat ggtaggagtc ctgttttgct ttcccatgag acctttgagg 360
 aaaggttaca agtgaccaat gaccagaag gcaaagaaca gcttcccaaa caaaggtccc 420
 catgaacat atccattgat gatggcatca gagacttcgg ccacgaatcc aacgatgttc 480
 aagattatga gag 493

<210> 31430

<211> 537

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d03d1

<400> 31430

gaaaaacagc attatattat caagacacgt tttattaaaa caggggacgg gatcattacc 60
 aaccaaaaac caaaatacat tagaacaaca caacacaaaa ctactgacg cgtacatgct 120
 atactagtcc agcaaccatg caccctcac accaagtttt tagcaagtat agtagttgaa 180
 caacacatgg ggccaacaag acccttaatt ggaaataaag gacataacac aagcaagcaa 240
 acataagtaa cggagaatgt aggacaaatt attcttcttc ggtttctgat tctgcattct 300
 gaagccaatc aatgaaaggg tgagcattct tccaaatcct agagttcttg ttatcacctt 360
 tcagtccctt ttgataccac tgcactatgg tgttcttctt ctaacacatc agcatcgtag 420
 agtgccttta gaaccagggc aacctcttc aaagcatttg aagtagactt gcaagaaaac 480
 ttttcaatag catgaagcaa caacggctgg ggatcccttt tccggcacag caacaga 537

<210> 31431

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d05d1

<400> 31431

gggaaaaaca agtggggata gagattaatg tttttaagca cgggataatg tacaagatga 60
 gcaacatcgt tgaagctgaa gggttcttcc tagtccatga agcaacaaga tactgcactg 120
 gctgcttcta aaatttatag cacatgaaca aaaggggatt ttcaagttaa attacatttg 180
 gttatgaaac actatttgac gcctgggcac ttttgcaagc gtttgggctt acaccaggca 240
 atgggaacca catacaagaa tatggtcctt gcagggctac cccaacagt ccaaaggaat 300
 tgggtcatcc caactttttg ggcattaaat agctcaatgg gaatattcat gccaaaaata 360
 ccggccacaa caacaaaggc actcactacc agagttggcg tgggcaacat gactcccatt 420
 tggaggagat gggctctgtt gtcac 446

<210> 31432

<211> 487

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d06d1

<400> 31432

gcacaacaaa attaccccat acgggtaatc acagggatct caaaaatggg acgtctcatg 60
 aaaattctat agtagagatt tctgatattt ttaggccaca acagaccata ctccatttag 120
 aggtaactct agttcactgg ctttaattca tcctcttgcc gctgatgcac gtatagagaa 180
 cctctttgta taatgcataa atagaaggga aagcactctc cagcaccaga ctcaattatt 240
 gtgtgaagca tccaattatg atgctcctac aaacttggtc aaggctgatg tgtctaaacc 300
 tgcaaagtcc ttcacagctg caagcacagc aagtccaagc ttcacagcat catcattact 360
 aggtgcctca atgttaaggg gaagtacagg atcatggagt gataatctaa gaagaaacca 420
 tccaccatag ccagaaactc ggacccttc ttagttcaca ggagccttgt gcagacttgg 480
 atcagag 487

<210> 31433

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d07d1

<400> 31433

gaaagcacia catgaagtag taatatatat aaccactgtc aaggactatt cttggatttt 60
 caatcataca gaaagaaaat gacaaaatat tccaaactca aactccttac ttatttcata 120
 aacgctgcca taggtttaat ttcataatag aagaaagggtg gtagctagtg gtagtgggtt 180
 aaaaaccatg aatcttgatc tggtccttcc taacaaggcg agcatgaatg aggaagttag 240
 aaacgttctt gcgctgatca ccttgaggtt ggataatctt gccaaagctcc ttgtcatgca 300
 caacattgcc attgcagcag aactctttct tgagggtctt gaggatcttc tcgtagctga 360
 actctttctt cagcccttgc actgtggtea gactcttctt cccattcttc tgttgtagtc 420
 ggatatgcac atactctttt gccccgggag catctgtttc ttttgcttcc gcaaattgggt 480
 cgaaagtgtc cgtagggatc tgataaatac ccactt 516

<210> 31434

<211> 438

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d08d1

<400> 31434

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gacagaaaaa tttattgtca tgctataatt caataaagcc tcgggggtaa cagtttctaa   60
taataaaaact tctgaacaga attcgcacgc tcctaaatat ttgatttttt tttcttcagg  120
tcctaaaaca taattctcct aacaaggaac aaaccatagc agtcacatgc gatgaaaaaa  180
aaaagtaaat atttcgatat gttaaactga ctttcagaga tcttccactt aggaaatgaa  240
aaattcactt tttgaaaaag gaaatgataa tgaaagtctt tcaaaaggaa aagatgagca  300
aacgttggaa atgaaggatc ccagatagca attcataggg tgaaaaaaa caattatcag  360
aatcatcgt catcctcctc tgcaatatgc ttagccagct cttgctcttg ctgttgcttc  420
tctcttttct tttcagca                                     438

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<210> 31435

<211> 543

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400073d09d1

<400> 31435

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agccacagaa aatactctcc cttggtgatt ttaatgtcag ggaggtgaag aagcatcaaa   60
taaaattcca gaagtcaaaa ttttggttat tgtttaacat aaatatgtaa ttctaacaga  120
aaaatctgcc aaaaaaaca tactccatta aaccaagcag cagcatctca ggcttctgag  180
attggatact caaatactac atcttttcca gtaagcttcc tgtaaaactcc agaaaaggtc  240
tccagcttgt actcagtgtt gttgcgctcc ttgggggtcca agaaaacctt cattattttt  300
gagccatcaa ttctatatct ggcccgtttg ccaacaatct ctgcaggata cacaacatcc  360
tccagcatgg catcatggac agcgggtcaaa gtgcgggttc ggggtcgctg aacagcagag  420
cctttctttg gcggtcgac gatcctcctt gtggcaatca agacaacatc cttcccacta  480
aacttcttct ccaactcttt gacaagtcga agatgaatct tgcggaatgc cttccttaat  540
ctg                                                         543

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<210> 31436

<211> 439

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073d10d1

<400> 31436

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cacaacacaa ttacatttat gaaaaggaaa atgtttctta gtatattctt gcatcaaaag 120
agtctcacac cacacattaa agacagttaa acagccaaca agaggattca agggttttta 180
agggccttga tgatcttttc agcactggag atggggaact ctctccact ttcaacattc 240
gcaaccttca ccttgggggc ttccaccagc aaagcaaacc tttttgagcg gacgccgaga 300
cccttgctcag tgagggtcaag ctcaagacca agggcattgg tgtttttggc tgcaccatca 360
gcaaggaact taacatgctt gttctctggg aatgttttgg cccatgagtt catcacacat 420
ggatcattcc cactgatac 439

<210> 31437
<211> 176
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073d11d1

<400> 31437

gttcaattct actcaattat caaatgatc aaaagataat atccaacaga aacataaaga 60
taaaccat gaaaatagtc taaaagaacc tcaaacaaaa tctggcagta aaaaaccaac 120
gggtacgtct ctactaaaaa cgctgatag acaccaagta tttgtaactc attcat 176

<210> 31438
<211> 479
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073e01d1

<400> 31438

gaacatactc tgattcaatt tcctatttct gtcaattaaa ggaaaagaga gagaaaatac 60
ggacaccata tattacagac caatatctcc aatagacgag cattttaacc cgaacttgtt 120
tttcaaaaaa ggatacttga accctacaag ggacaagggg tggttatattc gtaaacattc 180

tcagatctgt gctttaccat catccaaatt gtaaaaaata aaattaaatg taaagactgg 240
 tgttccaata atgtcagttt cagcatcatg caggatagac atcgatcatt gttgacgctt 300
 ggtacggtgc aagagagcga gaagaatfff tttccttgga cccataggaa tcccaagctc 360
 tttgaggtca ttttctccca tctgcttcaa tgcagtcata tgcacttgct cagccttaaa 420
 gagaatggca tattcttgaa gtcccatgca tgtaacaggc catccaagtc tgggagact 479

<210> 31439
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e03d1

<400> 31439

gttggtaaag aaacacttta ttttattaac tcatcaaacg taaggaaacg aaacatcatg 60
 acagtatagc atttataacc attaattaca taacctttat ttttgtttcc cccctcattt 120
 tttttggtcg ttgaatttta aataacaaaa acattggatt ggacgtgatt aaacatgatg 180
 ataattgaaa caaattgtga atggccacca tcatctacag aaccaataa tgcaacgccg 240
 tggacgtaat tgtcacataa ttatgcagcc ttgtggattc tcttcgctga aatattgatc 300
 accacgggtc acataacagg gtctgcctcc accgtaacta tcatatacgg gccttgcata 360
 gtaccggtcg taacagaaca tgggcccacc gtattcgtac ccaggcccaa cgggcctgcc 420
 ttcgtagcac ggaggaggag catagagcat cccaactgga acc 463

<210> 31440
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e05d1

<400> 31440

atatcataaa caagaaaatg tatcatgttt acgtattcaa ggggccgggt tttctcagaa 60
 gataagtgtt taaattacac ttttcatata agaaacacca aaaaaatgga gaaaataaaa 120
 aaaataaaag gccaatgttt gaagcactga tctacttaag caatctttca ccctcatgca 180
 agttgcaaaa tattcacctt tgtagttgta tgccctaaga atctcctcat tagtcaagta 240

cacacactat ccaatttgca acacgggcga aatttgaaaa caacgtgctt caaaaatccg 300
 aacccggcaa ctctatacat aataattcaa taaaagtaat gatagttgca catactttac 360
 tcgcatgctc ctcaaaatac tgctctccat gtcattaaac aagaccactg caacttgttc 420
 tacatgatct agattccaca catattcaca cataatatgt gtaactcatt tttcaattga 480
 taaatctaac aagtca 496

<210> 31441
 <211> 318
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e08d1

<400> 31441

cttggggccgg tgtaatttta atttatTTTT tcttttttcc cccacccaaa taccaatatt 60
 acgccccccc aaaaaaaaaat taaaagccct tcttacagaa ccccaaaaac caacaaaacg 120
 gccgccatac aaaaaaaaaag aaaacggaaa aacccccctt ttccccaaaa aaaaaccctt 180
 acaaaaaaac ccccttcccc caaatggcca aaaaacaaaa aacccccaac cctaaaccct 240
 acaaaaaatt aaccaccccc aaaaggccaa ggggaccccc ccctaccac aaaaaaacc 300
 cccccggggg ggaggcaa 318

<210> 31442
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073e10d1

<400> 31442

ggaacacaaa ttatagggaa ggggcaaacc aagccaaaaa ttgaactact caaatagaaa 60
 gttgacattt aataaaccaa agcaacacaa cgcaggaaaa gtcctgaaac tcgctgcgct 120
 taacaaaaat gtaatcaggg gttccgacaa acacaacaca ttaaaacaca gattaataaa 180
 agcaattttg ccaccgtcga tcaaaaaccc atttttggga acaacagttg cgaaatgatg 240
 gtggagactt caaactttgt ccgaaaaaca agctccctat aaaagaagac acaagagtcc 300
 agaaaagaaa ccaacattta ttggaaccaa catccccga tgaaccagcc cgcacgattt 360

actttttttt ttgggcagcc ttggtgacct tggctccggt aggatccttc ttctcaacgt 420
tcttgatgac tcccacagca acagtttgac gcatgttctt aacagcaaac ctaccaa 477

<210> 31443
<211> 422
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073f01d1

<400> 31443

aaaggacat tgatggatat attaattaac ttaagaaagc caaaccatgt aattactgag 60
agcacatgca cctgagagct tacttaacta ggggtccatga tgctaattct tcatacatgg 120
atagctctgg caggtatctt attggatgga catgcatgcc attaaacgga ttctcatgag 180
cccgtttaag tatgatccgg ggtgaccca ttaatcttgt gctcaatcct cttatgatgc 240
aagaatccat agcccagtct gttgacctaa ctgaaatcag gacgtttgcg ccaatgaccg 300
aaattgaatc gttgtagcac cggattcctg gtccagtcac atgtgcctgc tgggtggcggc 360
gcgggcctgc ttacaaactg gcctggccca ttttgatggg ccttgtttta atattcaggc 420
ca 422

<210> 31444
<211> 419
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073f02d1

<400> 31444

aatcaagtaa tttcaaacca tttgagtata tattatttta tgggcttggc acttaacaca 60
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ttccaaaata aactggaaga tgattaactt aaagacacac atatatatat aagccaaaag 180
catatatata tataagacaa gtagaaggaa tatgctcata attggttgct tatgcttcag 240
ccaaagagat gcttggtggtg cttctcttcc ttcttatagt caacctcatc atcataccca 300
ccaccacttg ttttgctgta cccaccatca gtggtagtgt cagggtagac accaccacca 360
ccagcggcgc catagccacc acttggtttg ccgtagccac catcagtgac gtcagagta 419

<210> 31445
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400073f05d1

<400> 31445

ccaatgacaa gttaatttat tgatttagaa gtacagagag aggggagtta ctattcaatg 60
 gtaggacgcg acaatatagt agtatgtgta gagaaagaag ggaaggacgg tccacttgat 120
 aagaaggaa cacaattccc caaagaacgt gagttctgat ttctgctgtg acatttggtg 180
 gtaggtaata tgtaaataat gttgtaagtg ttctttgagc ttgaggctctg aacctttgtg 240
 agcttcgaac tcgactcacc taaacttttt tttttatata aaaagaaaag aaaagaaaaa 300
 gaagtaaaga ggacgataca atgcttcgcc ttttcaccgt ccttatcgac aattgatgac 360
 aaaacaaagc ccaaaattac catcacaaat tcttcaactt caacaacaga cacatatcgc 420
 atagacatag acagaggaca cagacacgaa acattactta ggaagaacct tnttgaatga 480
 cttatttgga ggagtttttg gagc 504

<210> 31446
 <211> 532
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400073f06d1

<400> 31446

aaaggagagg ggtccattga attccacatt gtaagcaaatt tggaatagca tgtgaatatg 60
 ggacaaatcc aaatattgct gctgcattgt cacataatct acagaacctt gaaaactaac 120
 agcaatcaaa tatgttcgcc atttgaatt tgaatacaaa tacagggcat cgataatata 180
 accctatgta cagagccaat gtctgactga aatttgatac agaacattat ctattttgta 240
 tcataataaa atggtaaaga tctttatgtt acgtgcagca ttatgtgaag aagggggaag 300
 tgcattcagc tgggtgcttta gtccttcgtc ttccctttta cttcatcatt ggctccttct 360
 gcacgttcac atttccttaa actgcttaag cactgctgac cttgttctta cgtccgaagg 420

tccaatgggg tttcgctgga gtacgcctta atgccttcac tccaaggngt tgttcttgct 480
cctgagacaa gttccagcgt aagtgttgca gatgggataa tctgcagggc ac 532

<210> 31447
<211> 339
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073f11d1

<400> 31447

cgggggaaaa aaaccccggg gcgttgaaaa caatgaaagc ccactcact tttttggggt 60
ttttggggcc gccagaaaaa aaaagggggg gtacccctc tggggcttgg aaaaccctcc 120
cccgaagggg ggggattaaa aacggggggg ggaaaggggg gcgaaaaggg aaaaaaaaaa 180
aaggatgggg attacaaagg aaaaccccc agggggagct cttcctcttg ggatggttga 240
aaaaggcctg gaaaccatca ggcgggccgt tttcgggggg ggccccctt tcctaattctt 300
gaaaggggag gggggccctt ataactgtag gtagggggc 339

<210> 31448
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400073g07d1

<400> 31448

ctgggtctgt ttttattata tttattttta aattttcttt ctttttttat atttttttaa 60
ttaatattat ttttttataa cataaaaaaa aggggcgcca aaaaaaaaaa aagttcaaaa 120
aaacaaataa aaaaaacaac aaattaaaaa aaaaaaaaaa aatgaaaaaa aaaaaaagag 180
gaacaaaaaa aaaaaaaaaa accttatttc ccaatttccc aaaaaaaaaa aaaaaaaaaa 240
ttttataaaa aaccccccaa gacccccaaa aaaaatccta caaaaaaaaa aaaaaatgcc 300
caaaaaaaaa ttatagccca aaaaaaaaaat ctttttcaa aaaaacaacg atatataaac 360
tccaaggact caaaaaaaaa aaaaaaaaaat ttccccccc aacccccaaa ttanaaaaaa 420
aagggtttta atacctaac caaaaaaac atttttaaaa aaaaaccccc ctcctcccc 480

ccatttgagg gaccaaaca aaaaaaaaaac gcccccgaaa aa

522

<210> 31449
<211> 484
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073g10d1

<400> 31449

agaatgcaac gttcgatata ctaataatag tgccatacaa aaggactgtc ctcgaatata 60
aaacctcccc tcaaattctcc caagaatgca agcaatgtac gtatataatt caaatacagt 120
aattaataaa ctcccatgat cacatccaca aaataataat atataaaggt aaggtaaata 180
gaaaaataac atgaattggc agaaaaatct gcaagtccga agacagagat cgatgatgtc 240
tagaacaaca aggacagcaa agcacatccg aataactaagc tcccaatcat cttctgaaag 300
gaccacaact tttcagcccc actatcatcg ccagaggagg agatggtgga gaggctgggg 360
ccgggagcca aggaaggaga gagtgcagga gcaaccacct tggcaggagc tggagctgga 420
gaagtggctt ggtggaaaag aaaggggtgt ataggggtcaa tgcgggtgga ggcgttcctg 480
gtgg 484

<210> 31450
<211> 353
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400073h02d1

<400> 31450

ggacacaaac atgcacattt gtgttcatct ccaggggggg ggggttaaga tattcagtta 60
cagaagcctg ttgcataaac cccatacgga aatttttaaag atgagacatt atatacatta 120
aattgggatg tattcaatag gagtgcagg aggattaccc ttacgcgact tagccccctt 180
tgacagtaag tggccttaaa aaaggagcca gcatatgata taactatgag taaggactcc 240
atttcagctt ttggtgcatt ggccttaggc agaagacatg gatttctaata taaggatcca 300
agttttatcg acgctgttga ttgcacattt gacatgtggt ggcagactta aca 353

<210> 31451

<211> 434
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073h09d1

<400> 31451

acaacacaat ctgaaattgg ggtttggaat ttttcaactg acaggggagg gatcaaaatt 60
 aaacctagga tgaagtttta tttttatata ctgatacaca ttatttaaaa attcaatata 120
 aaaaggtcct gagacaagtc atctactaca gaacacttat tagagcctcc cgtaaaattc 180
 gcaaataatt ttgcagtaat attttaatcc agtggggcgg gcttcataac aattattagc 240
 ttcagcaaac ggatcattac tcttggggcg tcttaaactct tgggtggggtg ttaatttcca 300
 tcattcaaca aaggccccgt atcaaaatta ttaacgaaac tttccccact aaaattccct 360
 ctaaaagaga tgatttaagc tggcggactt tattacaaat tgtggaattg ggtgattcat 420
 tccccgggtgt actt 434

<210> 31452
 <211> 425
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400073h10d1

<400> 31452

acaacacaat ctgaaattgg ggggtgggtat ttttcaactg acaggggagg gatcaacatt 60
 aaacctagga tgaagtttta ttttttttta ctggtacaaa ttattttcaa attcaatata 120
 aaaagcccct gcaacaagtc atcaactaca gaacacttat taaagcctcc cgtaaaattc 180
 gcaaataata tagcagtgat tttttaatcc aataggccca gcattataac aattattagc 240
 ttcacaaaac ggatcattac tcttgtggcg tctcaaactct tgggtgggggg tcaattccca 300
 tcatgccgca aaggccccgt ttccaaatta ttagcaaaac tatacccact aaaattccct 360
 ttaaaagaga tgatttaagg ctggcagact ttattaccaa ttgtggaatt ggttgattta 420
 ttccc 425

<210> 31453
 <211> 381
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a02d1

<400> 31453

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gaagaaaaaa aactttgcat gcacttgcca ttaaacttcg tggtagacac aatacacatc   60
aaggcattta attttatcta tctatctttc acacaaaatc cgcacattac caaaaaaaat  120
agaaaaagtt ctcttcaaac tgatatgttt gccacacat atattaccgt ccagcttttc  180
ttctagctat acacaaaaaa aaataggcta tcaagaataa tcaaggaaat ggaaacaaca  240
aagaaaaact gggaagagtt ggaatgcagg ctaaaatgca ctccagttat ctgaaccttt  300
cttcggagaa tgattttcaa aagaagacct taaaagggcc agaggagccg aatggatcaa  360
agtcatcaaa agaaaatgga c                                     381
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<210> 31454

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400074a03d1

<400> 31454

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ctgattatca tttcattaaa tcgactataa gcaaccagat atattggtca aaaacaagaa   60
ccacggtgac acaaaaccat aaagatactc aaactcaaac acaactaaaa ttactgagca  120
taatcataaa ccctaataca cgacatcaag ccctagtttc tccagcctcc atcaccaccg  180
tcaccaccac gagagtaacc acggtcacca ccaccaccat aaccacggtc tctgccaccg  240
tcatagccac cgccaccgcc accgcpatat ccaccgccgc cgccatagcc tccaccgcca  300
ccgctacggt tgtatcccc tccaccaccg ngaccaccac caccatattc accaccgcca  360
ccaccaccat attcaccacc tccaccgnet tcggcgtcac cgtcaccacg ggactgagct  420
tcgttaacag tgatgttacg gccgtcaagg ttagggcgtg tcatcccttg atggcgctctt  480
tcatggactg c                                             491
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<210> 31455

<211> 467

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a04d1

<400> 31455

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agaccatattg caacttatat cattgttaag ttgaaacggg gaaaagtaca ttaaaaaaac   60
gagaaaagtt aaatccaaat ccaaaacata atgacaagac aggttattat ctaaacttca  120
aaagggtctt cgcaaaatca agaacaaccc atgacaattg gtctgcttaa tcgacttcct  180
caattttggg tccagcaccg cttccactgc cagcagcagg accatcctca tccatggctc  240
caccgcacac accaccagct ccttgggtaca tctttgctat gatgggggta caaatgctct  300
ccaactcctt catcttgctc tcgaattcgt cagcttcagc aagttgggtt ccatcgagcc  360
attggatagc ctgctcaatt gcacccctcaa ttttcttctt atcatcagca gacagcttgg  420
aagcaatctt atcatcttta attgtgttcc tcatgttata ggcgtaa                 467

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<210> 31456

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a07d1

<400> 31456

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aacaaaacaa cacaggacct tgttggcttt cattaaatat tcgcatgaac aaatttatat   60
tctgtgggga aaaaatataa catacacctc aacattacta ctgactattc ttgtaaggaa  120
catgtagata aataatagaa acagagagggg tacattccca tctatttcag gggttcaatc  180
ctccagacaa ctttgatagg ctgaaaattc ttgctatata cagcacagca accttgtgta  240
tctccaagca aaaggaata acaacacaaa atgaatcata caagagaact aacagttgat  300
gccacattga ccattgggta atttggttga gtcagaagtg aagggatcaa tcctcaccca  360
cagcaaggag aatattgaag caagaagaac ggaccaaaca ataacaatgg ttggggtagc  420
attttgcttg cccaagagac ccttcaagaa tgggtataga tgggcaatga                 470

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<210> 31457

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a08d1

<400> 31457

aatacacaag atgggtcagg ttatgaatac aaataaagat ggggaaaata ttcaatctta 60
 gtaatacaaa agctaataat tctcttacia ataatcaaaa ttgaagacaa tggcaaagat 120
 tgacagatcg taaataaaaag aaaagaaaac aagaggaaaa aaaaatcaga cattttccca 180
 acaaacagat ttgaacaaaa aggacttaca cagaagatac agccttacac ttgccaattc 240
 ctgacttgaa gttatgaact ttacggacaa tgagcaattt acgatctgtt gccaaaacta 300
 tcatgacgca agaggagata tgatcaggcc aaataaactc taattttact caagagtccc 360
 tctcccatcc accagtttaa aaccattgat catggaagtt ggcacgatta tttggtggaa 420
 ttccagcacc aaagaaagat acaaattctt aaataagccc caattcatac 470

<210> 31458

<211> 520

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a09d1

<400> 31458

aacattatat aacaactgag gtcttgaata tcatactaaa tatgtgaacc cattcaggtc 60
 caacaaattc aaacgctgtg taaatatggg aggggagcaa atggaataaa ataataaaa 120
 atagtagagt atctgtattc tgagacaaac ataaacaact gtaagtaaaa ctaaccgcaa 180
 gaatacaatt tgcactaagc acctagagtg catttaagta tctaagcact tgctcattga 240
 actcaaagct cactgaattc caagctgaaa ttgaaactaa gcacttgcat gacatgtcgt 300
 ctgcaattct ctttacaaca tgctcctaaa acaagaacat tagttctaga tgttactcat 360
 tttgaaagct tatgatcagc agcatgacac aaagactact gagaaagatt ttaaccaaga 420
 catgtgaact cttacattca tggaagctta aaatttcagc ttcagggctt gtgaagtttg 480
 aagccaaaaa ctctcgggac atagctctgt gatggtttct 520

<210> 31459

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074a11d1

<400> 31459

gtaccaagtg acccttatat gaatatgaat acatgactct acgtaaacta taaacaaaga 60
 tcgcattatc aatccaagcg aaagaccaca ataacacagc acattagtga caagtatttc 120
 tgtaagcaat acataatcgg ctaatagctg tacaatactg tcaactgtttt taccctcttt 180
 atgaagtaaa ttggtcgctt ccctataagc acaagacatc caaaatcaga tagggattat 240
 cactaaaact ggaccaataa tatccaacat ctttctgcag cgtgatgatt gtggataact 300
 tcaaatatag ctgctaaata tgatccttat gactggg 337

<210> 31460

<211> 462

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074b01d1

<400> 31460

aattaaatat tacattttat gtagattgat gttttcaata ggtatacctt gaaacaagaa 60
 ggggtagctt ggcggaggat caaacttccg tcataaatgt cacaccccaa ttgagctaca 120
 agctcttctt aggctataaa taaattattt acaccacttg catgactgta catgttacat 180
 atgcatcata catgtacaaa ccagtgaagt gaaatatgtt agaattggga aagaatttga 240
 attattcagg aaaaatagga agccttggtg aactgatgc cattgccgct gtcaccagta 300
 gacattgagg taggacttgt tttcttacgg ccaatagtag atttagaggg tttttttgta 360
 tttagcctca agggaagaat ttgcaacctg ggattctgat cgctacctga cttttcagca 420
 gccaaactgat aactttgaac gagttcaagc tgccggggcaa ta 462

<210> 31461

<211> 465

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074b03d1

<400> 31461

caccaaacta tcgggacatt gttctacatg atttcaatag gaggaattta aaccaatata 60
 atcatatcat ttcttttttg acgcaccaa ctcgagaatc aaaatagcac ttgggcacag 120

cctagccccg ctgtctcttc aagagagcca aataacacaa aagcacgtac tacagccctt 180
 ggctacaagg atatgtcaaa ctattgggag attttttttaa gattaaagca aaatgattaa 240
 atttctgaca ctcaaattccg gcatccaaaa ctgtcaacat tacaccccc aaatacata 300
 ctgtagcata agcagtagca cgactcaaaa ggcataattt tactcaaaag attcatcatc 360
 atcgtcagga aggggctgac tagcagctgc aagaagctcg gcctcatgtt gttgctgtgc 420
 agctaaatca attaaaactt ctggtggagc caatgctgga gactc 465

<210> 31462
 <211> 422
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074b11d1

<400> 31462

aaataaatat cacaaattat tatttctcct ataatgttat aagtatagat agacgtagac 60
 ccctaaaagt ctgtctataa ataaaaggtg aatctaaatt aaaccaaga aaaaaaaaaac 120
 ttattaaaaa aaagtacaac aacggattac aagtccaacc tttttcactc taacaagaca 180
 caatcctaag ttaaaaatga aaaagaagga aagaagaaa tacaaaatat ttgtgttgac 240
 tgttgtcttt ttatattagt cgtggcagct taaagaagaa agtcacaagc cacgcgccgc 300
 atcgacaaa acggacatga tcgaggctct ataacggttc ttttgactc accacaatgg 360
 ggctccgaac cacgtgcttc ccattcgtcc acgtcagcga cccgaacacc gtcccgact 420
 ga 422

<210> 31463
 <211> 419
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074b12d1

<400> 31463

gcataattcc tatagtttta gatctccttt tcccttttga acaatatttg gtacacagta 60
 cccagaaga gaaaccaaga tgaaaaactt caaagggaaa ttaattaata catcaaagga 120
 gccaaaaaaa aaagagagag aaagtaatcg gaaacatata tgtggagatt tgtggggact 180

acataagggg aacaaaggat tcaattgatg ggtatgtgaa tgcctattgc tacaaccaag 240
 atggtaagta tgcagaagaa aatgatggca tgaacaaaaa ttgcatccc actagtgtc 300
 atgtttccaa acttaaccac cctatacctt gcgggaaatt ggaacaacaa acccgagat 360
 aagaggatga acaaagccac aggaataata actgggcccc aatcaggacc catttcttt 419

<210> 31464
 <211> 439
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074c02d1

<400> 31464

aatcttggat gttttggcaa gggagaaaag tataaatata ggaacaactt ggatgagatt 60
 gaacttacag tgatggttaa taaaaatgtt atatacttac tatacatgat aagcgcttaa 120
 tctgaagtat tcacaatgtc tatactgtat atttcctttc ctctgttggtt ggtatcatcc 180
 acgacataaa ccttttcaat cattcgtttc atcaaatacc ataaccttac caaaaacagg 240
 acaggtgtca cttatttcca tccactcata aatgccacca agatgaaaat gatgagagca 300
 ttttggaact atcttgggat tctcttcaat gtattcttca agacaagttg gacagacatg 360
 ctctcttctt gaggatgaat agacaacccc agctccagat gtaaattctg ctgatgagag 420
 tattacagag gacttgaac 439

<210> 31465
 <211> 363
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074c03d1

<400> 31465

gttcaattca attctattta tcaatctttt gactgtctgt acagttatta tcccctctcc 60
 tgagtcaatt tgaatctctc tccacacccc acaatgtcta catccataac acaagcaata 120
 aaataaaaaa agaactctaa tcacataccc tgtacaagct agtgtgacaa tccctctccc 180
 tcccaaacta aagtgaaaaa aaatgcatta gtgtcccaat tggcctctc cccactggg 240
 ttaccatta aagttttaat gggtaagacc aaaaattaac ccatcaacac ccatgaggtt 300

ttccaatcta tatgtttgtt aaaaacacca ctgttggtta acatttccta gtgcatggaa 360

tgc 363

<210> 31466
<211> 564
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074c07d1

<400> 31466

atgcattaaa aacaatgtta cacattatta caattttatt caaatatacc aaaagaatca 60

atcaaccagc aaataaatag atggaacatg gtgatgccgg ttgtgatcct ctaactgcat 120

aaattaatta ccatccaaac tcatgtcatt tacactttga agcaacggat ccttcggca 180

atgagggatg ctacagcctc ctttcacttg ggtataacaa cttaaccaag ggaatcaaca 240

caaataaatg tgggtacaata ataagacacg aaaaagggtcc tctaaccaag taccttgca 300

agttcatcgg tcaacttcac gcgacccgat ggctccaact tgcttaaaag ggcagcaaga 360

ccttgaggta gagcttgcaa atctagagct gagtcaccaa tatttgtaa ttgaagcaac 420

actttctgcg cagcaattc ctttagttta ttctcgtaat ttgcaggatt atccttccat 480

ctgaagaagg ctttgtcatc caaccaagca tctgctctac ctttgggcat atcagaattt 540

aaataccatt ctttgagcaa gtgc 564

<210> 31467
<211> 517
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400074c09a1

<400> 31467

aggaagagct tgatattgat gttcttggtc atggagaacc agagagaaat gatatgggtg 60

agtacttcgg tgagcaattg tcaggctttg ccttcactgt taatgggtgg gtgcaatcct 120

atggttcccg ttgtgtgaag ccaccaatca tctatggtga tgtgagccgc ccaaagccaa 180

tgactgtctt ctgggtcatc ctgggtcaga gctttaccaa gcgcccaatg aagggaatgc 240

ttaccggtcc tgttaccatt ctcaactggt cctttgttag aaatgaccaa cctagatctg 300
agaccaccta ccagattgct ttggctatca aggacgaagt ggaggacctt gaaaaggctg 360
gcatcactgt tatccaaatt gatgaagctg ctttgagaga gggctctgcca ctgaggaaat 420
cagaacaagc tcactacttg gactgggctg tccatgcctt cagaatcacc aatgttggtg 480
tgcangatac cactcagatc cacaccacaca tgtgcta 517

<210> 31468
<211> 460
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074c12d1

<400> 31468

gaggcacgag ataaccactt tttaccatat atatatagag agagagaata cgaagcacac 60
tgatcacagg atgatgctct ctttaagtag ggaagcagat cttatcagta cacataggta 120
ggttgaaatt ctagctctag caatctagct agagaaggta gtacttgac aacacacagc 180
acatgataat ttattttata cacaatctca ttctcatggt gctcaagatg catggactaa 240
ttaagcaaca atgttggtct gataggcagt gtccacagat aaattgggta ccataaaat 300
ggccttgctt ccaaggaaat ggcaaacagg gttagttcca ggatcaactc ccataagttg 360
atgaagcatt tgatgattca ttccagaagt atttgagtgg caaatagcaa gtgcctgagt 420
ttcggttcca tcaccagcca ccaatggaac catgaaagct 460

<210> 31469
<211> 424
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074d03d1

<400> 31469

gcacgcaatt ctcttaagt ataatattaa caaagcatga gtttattaca gttatgcaac 60
aaaacgtgta taagtagaca attcaatttt acatcaaatt caagagcagg aagtttgtcc 120
catgctcatg ttaacagctt attcttaaac aatatagaaa atgcaaagac caaatggcag 180
taaaagaatt atcatcctat ccagacaatg caaagctctc ctgagtccag tgtggtggat 240

ccatcacagc acagggatct gatttctcaa agtcagcaac cttttcttga catttaggac 300
 agtagtgata tttatgccaa aggcaatcca ttgaagggca aagaaagcaa actccaagca 360
 tcatcggcac aaagcatcca acaaatgctg ctagactggg ctttgatctg acggtagtga 420
 gagc 424

<210> 31470
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400074d05d1
 <400> 31470

gaaaactcat gaataatata tgtatttttaa aattttaatg ttaaattatc atgacatgat 60
 ttaataatca atctttgatt ataggtccat gtatgttttaa agttggcatt aaattttgag 120
 ataaacctct aataatgacc ggaaaacaac actaaaaacg gtgaaatttg ttgcatattg 180
 tctttaatcc ataccctttg tgagataaaa ggctagtgcg gcggggctcc aagttggatg 240
 gatagtcttt ataagtgcaa caataccagt tatgtggggg catggcatat ggaagttcct 300
 gactcaatgt tgaagttaag gggatgtaaa tctgactcat cttcatttgc agcatcagat 360
 accaaacggg cagaaaaagc gggtgaccaa gccgccagaa tattaacccc aggagcagca 420
 atatcaggct tcaacac 437

<210> 31471
 <211> 512
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400074d07d1
 <400> 31471

agggaggaaa tgctcagtaa tagcataaat tgggtacagc ttgccatgtt catagtatat 60
 aagttgcaca gtcgtgcaca gttcaaccgc gggaaagtcc tggggatcaa tatcaaacac 120
 aattgaagtg cattgaccaa ccagatcatg gaacaaattg ctgcaactta tagaaagact 180
 aaccaggaaa ttacgaactc tctaacagat gtttgtaaat ctaagagacc atggcattgg 240
 tttcatcttc atcagcttct cctgtttcat tgaacatgta ctgactttgg tactccatta 300

ggtactgtgt tgatcttttg acatccaaaa acagattgta aacccgattt atatcatcca 360
 actccactgt cttccccctt cgcttttggc atgccaatgc agctgctgtg attagatgaa 420
 tagcatatct catagatggt tctacaccta ttttggttaa caaacacttt gcaccttcac 480
 tcatgtctac gtctttctct tggcatctga ta 512

<210> 31472
 <211> 582
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d10d1

<400> 31472

acaatacaat atgtaactat gaactatcaa tatatgatcg ttatttatgt ctgtgataca 60
 cacaattcag gccatgatat tcttacgtga tttacagcaa cttctaactt atttaataca 120
 tcataccaac ccaactagga gcaattttca ttatacaatg acacttatct ttaaactctg 180
 aagcatgaca aggtggtagt caccaggac catattctta tgcaatttat gccacaactg 240
 gataagacgc acaagttgca acaccacaca tgttcttccc caattccatt ttgaagtagc 300
 cattctcacc ccaactttct ccccatgaat tttttatgag ccaatatggg acgccatttt 360
 caactccata cccacagca aggacggcat gggtcacatc ctgtgaagtg ctaccgcaaa 420
 tgtcactagt gtaaactcca ttctcgtaga aatggaaccc attcaccacc tgaaaggcca 480
 cactaaccgg ccgaacaaat gcaactgcat gttttaattc attctcagca acccagggtg 540
 atatttgacc gagtcaatga cttgaacggc aacattttca gc 582

<210> 31473
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d11d1

<400> 31473

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 gcagcctgat caacaagatt ttaaatatag caagccgatc aaatttctat tgctactaca 120
 aagttgacga tcagattgtg ttttttatat ataaaaaaaa atatcatg actctggcaa 180

gctgaagggtt atcacacgat taaagattgc caaaaaataa gaaaaagata ataaatgtca 240
 agcatccgct taggttctcc attggcttga aatatctcaa tggatctttg taaactgaaa 300
 aatagcttgt tccacaatcc agcctatgca taatagttca gacttgcttt cttctttgct 360
 tggacttgaa taataccttc attaaaatcc tctgggttca cctcagttgc atcacggcgt 420
 agagccaaca tgccagcctc aacacagaca gccttcagtt gtgcgccatt gaaatcatct 480
 gtggaccggg caagttcttc aaagttgaca tctgggtgaa cattcatctt ccttgaatga 540
 atct 544

<210> 31474
 <211> 264
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074d12d1

<400> 31474

aggccgcatt cacagcaaac tccacaagat aatttttagaa aaaaaatgca aaaagtcaaa 60
 caaagaaatc tagctaaaac aaaatctaag cccaatctg gatttttaaaa aatcaattat 120
 gccctataaa caatgttccc accaaaatgc tatttacacc atagactcaa cttagaaccc 180
 caaattaaca tttggcgtgt caagctttac attgcaaaac tcataggtct tgagcgaaag 240
 gcaggctgat agaaaaagaa agat 264

<210> 31475
 <211> 458
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074e01d1

<400> 31475

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 ggtttttgaa acacattggg caccaataca gaataatcaa aagggagaac ttaatttctc 120
 tcccttttca agccttcttc ttagatggaa ctgtcccatc tgtgcctgca agcatggcat 180
 atttgctctt cctagacaaa tttgtgcact caaatcccaa agtccctgca agaacccttt 240
 gaatgtagtt tgcaacttca atagctgatt tccctccact gcatgtgagc tccttgggaa 300

002220"EFFE560

gctggttcaa gaaagtgatc tcatatgttg gcattggatt catgaacaca aagttcgggt 360
ccaacaactt gtgtccgcaa accgtgggtc cgtagaacac actttgcttt gtgttaatag 420
caactgggac aatcctatca gtgagttcag caaatagt 458

<210> 31476
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmst02400074e02d1

<400> 31476

aataatataa ttaagcaggg tcggtccatg gacatatata agatgataat atgaaaatgt 60
cgagataaga ctccacatca agattgaatt aaatagacat tggaaaaccc acatcgggacg 120
ttgatgaata ataacagtgt tactgaaatt aattacgtaa ttaattctca ttggcgaact 180
cctcgaatag cctgaggacc tgaacacagc cagaagcaac ctctgagac atgaagccca 240
gggcattggc taacctatca taggatgcca cgccgttggt gcgggtgaga ataactgaca 300
gntgctgggc ggaccggggc gactatcttg cattgagggc gagggctgct tacaagcttg 360
gcactgcata tttgatctgc gagaccctcg cacacgtgca tcgtgtttgc ttcagaagat 420
gcaccgtacc ccttcttggt gtacacaaca ctcgttgata accctgctct tgct 474

<210> 31477
<211> 394
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074e04d1

<400> 31477

aagagaataa aaaactttta tttatatcac agccggacat atgatataag taacataggg 60
ctaacacata aagagacaca taaaaagggt tacattatgg gaacacccat gatttattaa 120
cccataatat aatgccacca gaccagacca gacctcccaa agcataaaat atctaagacc 180
taaactatta catgggaaga aaaatgcata aactgctttt tgagtcaagg gactttcaca 240
tgaccctctt taatgacaca ataaaagtcc gtgatacacg agtttccctc ttcgcatttt 300
cactggtacc aaattgaaac ctcttgctgt ttttgaagag aattcattca tactcactgt 360

atattctcct tgaaatcaaa ggatgacaaa tcac

394

<210> 31478
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400074e05d1

<400> 31478

aacacaagct tcaattttat tgattttcat cttgtacgta tgagtaggac cattcaggtt 60
 ctatagtgtgta aactaactca aatgttcacg aaaaccaatg aaaaaaagaa gtgaaaaagg 120
 ataattgatc aaaggcttaa gagtaaagaa agggcataaa aaagaagagg tattagtccc 180
 ttcaataata ataataattt tcagtgtcca aactcctata aacatgaaat gatcatttaa 240
 tcttattctt tggctcttaa tccaacggca cagtatgatt catgtagtcg agtatgatcc 300
 atgtagtcga cctcaccaga gtcattagac cactctctcg aagaggagaa ttgaaggaca 360
 attcaagaag agtccgaaca attntcatct tcatcttcgg gcattcaaag caaccaagaa 420
 agaggggtctg atgagaattt ggagac 446

<210> 31479
 <211> 607
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400074e07d1

<400> 31479

aaccattaac gtaaaaaact attaaaaaat tgtaattact acacagtaca cacctaacta 60
 acttgaatag ctgcaatgga caagtcagag tacttattct tacatgcatt gcagctacct 120
 ttagcaatga aaatatacaa aattgtgcaa tttcctaata aatacaaatt tccaacaaaa 180
 aacagaggggt caaaaagact accctctaag ctgtaggctg gtcattcaat aattttctcc 240
 ctccctgttc tattggccat tcaatcaata cttgaatcag caagattttg gcaatcggtt 300
 agcagtaatt ggctgtctaca tttcaataat ttactatagt cctgcagtga tactggattc 360
 tctttgcagg aatttagtgc cctcatataa gagagctctt gagagaaatca ttttctgatc 420

attctgaaaa tggtttttta acctgaggag tgaatggtgg aacttctgag tactgaatgc 480
 atgttggtca atcttctgct ccattcttat accagaatgt atcccaaggc ccacttttac 540
 tgctcaacct taagaaaacc aaaatattaa ctcaatatan atcttatgaa gaaaattttg 600
 atcatgg 607

<210> 31480
 <211> 251
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074e09d1

<400> 31480

ctatctgatt aagtatcttg gttagaactc aggttttgct ctattggtcg gaagtacaat 60
 gcccataacc atgcaccatt caaagattaa cacttatcaa attatctaca gcaagaaata 120
 gaattcatga gaatctgcag tcaacctatc tacacagggtt gggtttgac actccaccgt 180
 tagggttttg ctgttctcgc catatactta ctgttcctcg tagcttcacc tctttcctgt 240
 ctacacctga c 251

<210> 31481
 <211> 481
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074e11d1

<400> 31481

cacacaaaca taggacaccc cggtgagacg ctgcaaaatt aacacatcaa agatccttca 60
 accataacat taactcgggt acataaaata tagctactcc cacagtcaag tcttagagtt 120
 ttgttaagtt ttatcacaac aatcttgaaa agaagcttac taaatcataa acgcatgac 180
 aacataaaac ggacacataa taaacaatag aaggattatg gcagcttagt atgagattct 240
 atccagtccc atatgccttc agttctcgt tccaatacac catgttcgaa gaggaacact 300
 ggtactgcct aggttctgct cttacatttt tcaacagccc tgggagctag accaatggca 360
 tcagaactct tcatgatcct cagcctcttg catgtttcaa taaacatctc ccaggaaca 420
 tcaccacaa gcatccaatc gccctctctg tctcatatg taagaacata ttctgatcca 480

t

481

<210> 31482
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f01d1

<400> 31482

gaactaacta ataaagttaa ctaactcaac cgattaccat tgggtgtttt tcttaagtgc 60
 aaaaagatga actttcaaca cttcaagatt agagcaaagc ccacagagct cgagaagatt 120
 tacaatgcta aatacatata acctaccaa gaaaacctcg agtgagtaac aacgtttttc 180
 ccacctacaa ttactcgtaa aaatgaaaac cctctcatta ttttacattt tgtcacacaa 240
 cttttaacct aggggagggc tgcgtgtttc aaacaatcta ttgaatgagt aaaattattc 300
 agtttttttc ggagttctca taccagacat ttcaatctgt actgcttaat ctgagctttg 360
 gaaagcaaaa gctatcacta gcagtattaa ggttttccat tggttcaata cggaccataa 420
 tggatgctgg gtattgagtc tgatgtgcta at 452

<210> 31483
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f02d1

<400> 31483

acacaatcat tcaaactccc atttttgaag tacaagaatg agaatatgta taacccaag 60
 aaagactgac attaaaatca ggaaattagt aaattaacaa tgatctcttg atctattctc 120
 tcatgtagta tataaaagcc ttccctaaag aacgttcttc atatcggcca atgcaaacct 180
 ctccaagtat aggggaatga aaactaagga aataaaacac agtcaccctc tcttctaata 240
 actggaagaa aggagaatta gaaagatcaa aagaatggaa gtggtagcat atcgtggcag 300
 tgatcaataa caagagcagc aattccttca cactaccttc tgagcttact ttgctttata 360
 ttataccac aaattctatt catcatctga ttccagagtt gggctcttag agcaggcttc 420
 cttttgatgg agttccaaca ttttcttttc tggattacat aggcctgaac actgtggaat 480

atccccacact gcaata

496

<210> 31484
 <211> 380
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f03d1

<400> 31484

aattatatca cttcttagta cttgtggtag tgaaagaaaa tgtgattata caaaatgaca 60
 taatggggaa gaactcatgt ctctgtctct cttggtctaa atcgcatcag aagacaaact 120
 aaaagggact tattttcttt gcccatcaaa cttgggagta gtaataattg gaaaaaacat 180
 gagaccatac agatagtata caggctgata cttctaaact cagcgggctt cctcacagga 240
 ggtcctctgg gccattaatt tccttatccg aaatgacagc accatctgga acttccagtt 300
 taacaccagg attggccacg atactgattt ttcccttgag gataacacca gctccacacc 360
 atacattggc agccactttt 380

<210> 31485
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f05d1

<400> 31485

caaaaattcg taatctcgag ctgttaatag ggaacataaa aagagaaaga atctctttaa 60
 cagggccact accctacaaa tagaatcctt ggccccccat ttgatgacca gaaatgggat 120
 aagtacttca aaaacaaatc ggaaacgata aaaaacaaaa aaacacatta acacagcaga 180
 ttggccgcac gctgtttttg caccacacct tgaaaatata tagtatgaaa tatgaaccag 240
 ttcacacatt aactacatat tggagcaaat accacagtgc agtgctttaa ggaaaaatga 300
 aaatccaagc cccagaactc gttttcaagg gggcaacaga gcagtagagt tgatccattc 360
 gggtagctac tctctcaga agaaccaatt ttcataagca ccatgatgaa tatttgaact 420
 taatgaatca ggaccaaact catgaggtgt attcaaattg ttgaggaggc tgaggttcct 480
 tatccacagc ca 492

<210> 31486
 <211> 285
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400074f06d1
 <400> 31486
 agaaagaaca acctagcttt atgagtatga atatcataag cattgtcact gccatcataa 60
 cagcactcac acgcatacat aacataatta acaccatgaa catgcccttc tacccaactc 120
 taagctactt gcatagtact acatatataa tctccttatt gaaattaaaa aaaaaacagc 180
 agtaacatcg gaagattaaa aaacatagcc tcttaatcct gccatcccca tgaacctgca 240
 gtgggctcgg gtcattgaac cagcccattt aaaggacaag acctt 285

<210> 31487
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400074f09d1
 <400> 31487
 gcaaattaaa ttacacaatc acagtcgtac atcacacatg agttgggcct cttccaactt 60
 aaaagcagag gataacattg gcccattgac cgacacatgc accacctaata aatcataatt 120
 ttacatcttt acatacaaaa taaaagact ttaaattgta aaaagaagaa aagagataaa 180
 cagatcatct taatgaaatg aaacaaaaac ccacaaacat tggcttgatt tttgctggtg 240
 ttgttggtcc caacttgatt aagcatgaac cgtttgattg aatcacttgg acttgaaggg 300
 aatggcctg attacgacct ggtggtagag tgctgcaaga gctgcaccga tgaatggtcc 360
 caccagaaa atccagtgtt cattcccaac caaggtcctt gttgaagatg ata 413

<210> 31488
 <211> 359
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400074f10d1
 <400> 31488

attcataact ccttcaacta gatgatccac acaaaggacc gtctaaaaag ctagcaaggg 60
 atacacctgc gtactatatt atagtatagc aatctaggat ttcttagaat gcatattaat 120
 taatattaat aattgtaagg ttttaataag tgacagcacg agtttatgaa tctattatca 180
 gcagcccaca tacgagggat aattttctag agcatgggat gggaaagatc catgggaaat 240
 ggattgccta gaacattatg catgtaatag tgtggatggc tcggatccat cagcaciaaac 300
 tgaatgtccc ttgaaggctt cagtgcggtt tcctttgatt aataaccagt tgttgattt 359

<210> 31489
 <211> 507
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074f11d1

<400> 31489

ataaggtact ctattaggaa tagaaciaaac aaaatataaa gcttcaccaa agtggtttatt 60
 ttattgtttt tatgttttat caatgagtta taaataaaga gacaatcagt caatatgtaa 120
 caacaaaata cttgcagcag taataataac gttaaacaat aaaaattaaa aaccaaacia 180
 caaatgtcct gatttttaaag acttgtgttc acaggatcat ttgaccaagt aaaggatagt 240
 tttctaataca tatatgaatg aaattagaag tatgctttta gtttttcaca taaactaatt 300
 ctaaaagcat tttctcttca aaaccatcat taatgaagaa aatatatttt aaattttaaa 360
 ttataagaaa atatttttca acaatctctc acttatgtaa aatttaagga aatgaaatac 420
 tatagtaaaa cattgttaat aaagcataat acattgtgtc ttcattccatt aatttgtcag 480
 acttacttaa caggaactc aatcata 507

<210> 31490
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g02d1

<400> 31490

ctctgaaatg ccaactacag tttgattcga ttagatgtaa ggggaggact attttttgg 60
 gcagggctac gtttttagcc agccaagtaa acagaaaata caaaaatcca cacttcagaa 120

cttatttcaa aactcaataa caacgttgga tccatccaaa atacatcctt ccaaattctcg 180
gaagtaaaaa tctggcataa tgttcttatt aatcatactc taagggtcc acagggtcaa 240
aacttcacgg tgaacacaag aataaccata tagggcatat agtttgata ttataacatc 300
taatgtttag acgaagttat ttgggaatga aaacagaaca gaatgcaatg atagccatca 360
aatccttgcc gatttacttc agtttgaga atagctcgg tgcaacacat ttgtcaatac 420
aagaccaata atcaaaatat tgtccagtgc agtggttctg cccagatata tcaccatgta 480
tccttttaat gcacgcctg 499

<210> 31491
<211> 474
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400074g04d1
<400> 31491

acagtggtaa caagaacttt attattttta tttgggcaaa aacaacaatt tcgaagcttt 60
accaaccaa cgaaagtcta tgattacaaa tcaaagaatg actacagctg ctttcaacta 120
aactcttccc ctttttttcc cctctgttta tttctttcca agtctccctc tatctacaag 180
gttatgacat cctcccttg tcagattttt gacaaaaca agaactatat ataaacttgt 240
tcaacaatca aaacaaaaag agcggctatc tttattcacc tactactact actatatctt 300
cacggaaatc cgtgtcttta ttggtttcaa tttcaaacc atactctctg gagagtaaag 360
ctcaggagaa atgcaagagg gactcagggg acttcttggg ctgacactca gcttagatgg 420
tctgtacaag ccatatccca tgagaaaata ctccattggt attaacatgg catg 474

<210> 31492
<211> 469
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400074g05d1
<400> 31492

acttagataa gtccggtaga atagataata tgacgtgaaa aaaaaaatca aaataaatga 60
cgtatccata tataactact cagcgtatat acagtcacca aaaggaaaca attgaacgga 120

gacaaacacc atcacatata gaaaataaat tatctcccaa atcaggtctc aggcactggg 180
 ttactttcca ctcttatata tgttgtcaat ggcattctga tagtatttaa gcaactgtgg 240
 cctcttcttc ttgtatgttg gagtgataag ggcacgttcc atgtcaaag gaattgagtc 300
 aaggtgaact gcttttataa actcaaaacc tttcaacttc ttttccttcg caatctttga 360
 gagctcttca attatgtaac tttttgctcg agcattttca cagagagaat tgaagtccat 420
 ggatatacca ttttcttggg cccaatgttc aagtgccttg ttactgggg 469

<210> 31493
 <211> 464
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g06d1

<400> 31493

caacataaaa taaaatttaa taaaaaaatg gtatgtaatt acagtatgaa gcaaaatgac 60
 agaaaatttg tttttgttat ctcccggtga atcgctcgct ctccgtttat agattcacca 120
 tgcattccatc ctttgtattg aaatgactac tctacaacat tcttcgagtt tacatacatt 180
 cactctttat tatttttgtg attagttgag aatgcgattt cattggcaga cttgtccaaa 240
 agatccaaac atgctacaag cgatttccat caacttcctt cttcttggtt taggagcagc 300
 aacctaaca agtggagtggt tgcggcgagt gcgttcttct tcttcttcag gagggataag 360
 aacgccgtca attccctgaa cggagatcct accatcagtg taaatatcag gatcaaacag 420
 gtaggcggag gaatcgccgt gaccgaattt aacggagccg tcag 464

<210> 31494
 <211> 429
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g08d1

<400> 31494

gagcagaaat ctccaagtat aacaattatg aaacaggata caacaggggt gacaatatta 60
 caaaaagtta gtatctatgg ttacatagaa aatcagatta taccctaatg gcaaaagagg 120
 gaggggtggtt gatcaagcta cataaaaggg tacataaact acaaacatgc gagggagggt 180

ggttgaccaa actacaaaaa aggggacatt ataaactaca acaatatcaa cagactaaaa 240
 aacaacctgt attaatgaca caacaaattc acttccagag cttgacaaac ttgtcatgac 300
 tggctgaagc aaccaaacca ttacagtag aaaccgcca tgcgcaata agaccttcat 360
 gagcagatag tgtcatcgtc ttgttctcag tcatgttcca gagctccaat gactggtaac 420
 aaccaacga 429

<210> 31495
 <211> 288
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g10d1

<400> 31495
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 cttttgcacc aaaccggccc aaccaagctt tgtcccaaaa atggccttaa aacctaaaac 120
 acttataagc cgtgcctaaa aaacacgggg cacccaaaaa gttcaaaata cccggggcct 180
 tacccccggg aattcaacca aactggggca taacacaccg acttaaaacc ccccccaaag 240
 ggggggggaca aaaagcaggg gggagtcctt cggaaatttg gaaacccc 288

<210> 31496
 <211> 538
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074g11d1

<400> 31496
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 gaccatagac caattccctt ttatttaggg agtattcaat acatccataa ttctgagttt 120
 catgttactc attccaagag acatgtcaga ttcagggcac cccaattaaa ttaaatggaa 180
 tgacagtttc tcattcgga tctgtacaat aaaaattttt atcaaatcac acatcgcagt 240
 atactagact ttctaattcc tttagagatt tatctaaaag atttgcgata taactaggaa 300
 gacgtttcaa ataccacaca tgagttacta ggcattgcag ttttatatag cccatttgat 360
 atctacgtat ccgagaatca ataaattcta ctccgcattg ttcacaaaat tttgggtcgt 420

cctttttatc tctgattact cgataatttc cacaagcaca aatcccactt tgtataggcc 480
caaaaattct ttcacaaaat aatccatctt tttcgatat attggttttg taatgaaa 538

<210> 31497
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074g12d1

<400> 31497

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aataagtttc ttcttgattg tcttttagact actatgttgc tgaagcattt ctgcgcatac 120
attaagtggc aatgtgtcag aatcaacaag acccagcaaa aagtttaggt acttaggcaa 180
cagttcatta aattcatctg aaatgaacac acgtctaaca tacaacttca ggttggattt 240
gtttgcgtta taatagctct cgtataaatc ttgaggtgcc ttaggtggta caaacaggac 300
tgccttgaac tcgacatcgc cctcagcagt gaaatgactc catgctaaag gtttctcatc 360
actgaaatcc ttggcaagag agtggttagaa tttggtgtat tcttcttctg taacctcctt 420
tggattcctc agccatatag ctctcacatc atttaaaagt tgccattcat aagttggttc 480
cttcaccgtc tttgtcttgg gctttttattc ttcgtcttca cttttatcag catcttcac 540
t 541

<210> 31498
<211> 402
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h01d1

<400> 31498

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agcaaagcta tgggtcaaaca ggaagtttgg tatcttgtgc tttccacgag aatctgatat 120
caaatatattt aatgaacggc gtgtgaccaa aacagagaaa acagagcact ctttttaata 180
aacaaacaca gcttttagttc aatgaaaaac ttttccagac tcttgatgat gatggatgga 240
tgtcgcgggt gtcgagctgg aatactttct ttactaaac aacaagtttg ctgcctttga 300

cattcactac aaacctgtat ataacatcga tcttctccaa ccttatacag gctttgtaa 360
tgtaatccat gtttaccact gtaatcatcg aactgagacc ct 402

<210> 31499
<211> 118
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h02d1

<400> 31499

cttgggggtgt ggtgttttat ttttttctat ttgcactaac ttttttaata gtttaacatt 60
taaataataac acaaaaacct aaatatgaaa tttgccccga tgacccaaaa acctaggg 118

<210> 31500
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h03d1

<400> 31500

gtgaagaaca gatattgtaa cttttgcaac atttacaact gagccttgat cgaagcaaag 60
tctctaactg tgaaaccac cttatcaaat ctacctctt cattgctctc tctaaatttc 120
aaatagtcca agcacacaaa tggtttgtag ttccttttat tcccttctcc aacaacttca 180
tctggtgcca aaatcacctt gtcacctca aagcaccaaa agaagatag agaaaaccgg 240
ttctcatgat gtttcaaac aactctatgt tctgaggatc ttagtttgtc attgctccaa 300
gcttgcaaca tatcacctat gttcaccact agggttccct cagatgggtt tatatctatc 360
cactctccct catttgatct cacttgaagc cctcctatct catcttgata taagatagta 420
atacaactca tatcagtgtg catccaagc cctcaactt gatcttctat aacttctgga 480
gctgagtaat tgtttaccct caag 504

<210> 31501
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400074h05d1

<400> 31501

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 ttatagaatc caatacaaat agcatcagat cacatgtctt tgatctctaa tgggcaaaat 120
 atatagagag aaaatgagca caaataatac ttgccaaata gaataagaac ctgatgactt 180
 aacagagAAC aaacattaac tcatcagagt aaatgagcaa catttgatgg cagctcctct 240
 acagtcacat tggagaactt ctgaatatca gacagcatcc tggaatcatc tgtcgtgaca 300
 aagtttatag caactccttt tctttcaaat cgaccactac gtactatgCG gtggagatag 360
 ttttcagggtt gggttggcag atcatagttt atgaccagag acacttgctg gacattgata 420
 ccacgggcca taaggTccgt ggtaatgaga actcgagaag agccggaccg gaatttacgc 480
 atgagaatat cacgtgtgtt ttg 503

<210> 31502

<211> 471

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074h06d1

<400> 31502

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 cggacttgat acaactcacg taaaacacat tttcatctac actaagggtt ttattatatt 120
 aaaatactgg acatcaaagt ttccactaaa aaggaaacat tctataccca aatacacaaa 180
 ggatctggaa aactcttaca agggaccatt catgatcagt aaaacacagg agcactttac 240
 gtagactttg gagcttcaact cgtatatatc aagcatttat tctagagatt gactattgaa 300
 actgcaatga cttcagcact ggacttcattg ttaccacctg aaggggagcat aacgatagga 360
 atgttttttt cagcagcaaa ccggaaaact ttataatctc taagggaat tccttcagga 420
 ctgatctgga accttgctaa tggatcacct tctaggatgg gagtgccagc a 471

<210> 31503

<211> 451

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400074h08d1

<400> 31503
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 tagaggaaga agatcctcct ccatacatga aactcccaag aaccagaaca ttttttagca 120
 attaagagag aataattaaa acaacaaaaa gggccctcct ttatctactt gttttctggg 180
 ttaggcattt cctccagcat aaagacaact cttgtaactt ggattattcg ttgacaacat 240
 ggctgtttgc gagaaatcac aagtcaatgg attccgtcca gctgtttgat acaatagatt 300
 catggcatat gcagcatggt ttaccaaagg gttaggttca aaacaagccc ctcttgttg 360
 aattgcggta caatcaatcc cttgccaca agcataatcc aaatttgctt ggaactgtgc 420
 atctgccact cctcctttgg gcacacacca t 451

<210> 31504
 <211> 365
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074h09d1

<400> 31504
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 agttctcttc aaaactaatc atttatgaca cagctgaaac ttggcaaadc aatgtttatt 120
 attctcagcc gcattctctt ctttcccaag tgcaaccact actttcttca agatggattc 180
 ggttggttga tgagaattct caacagcctt tgagattgct tgccatttct ctccatgttt 240
 tggttcagca gcaatacatc tcttcagtac atccttctgg ttctcctcag ttccatgctg 300
 cagttcaaat ttgtatagca atgccccaaa atccccaata tcaggagcta gtgtcacagc 360
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<210> 31505
 <211> 437
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400074h11d1

<400> 31505
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 cctatactac tgcattagct acaagataaa ataaactcca cataagcttt aagcagggttt 180
 cttgctgtgg actccatcac caacatcacg atcacaattc ttggagcttt atttacataa 240
 aaggggagat aaaggggtgtt cagaagactc ctgccatgga aggcagggtcg tcgaagctcc 300
 aaaggttcat aggggtttccg gcggcgatcat gagttgcgtc tccgccgagc aaagacgcca 360
 atggagcatt agcccaggct ttatcaagaa aagaaagggg ctcaaagaac ttgagctggg 420
 attcaatgtc tgcaagc 437

<210> 31506
 <211> 619
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075a09d1

<400> 31506

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 ttacatccc ctaaaaatct agtgtagagt aaaataaaag aatgccacga tacaacaaaa 120
 gcaacaagca ttattgctcc attaccctg tgattacaaa atacaaacca acaaaaaaaaa 180
 ttataacaat ctctctctct ctctctcgcg tcgatctaaa aattgaaaaa attaaaaaaaa 240
 aaatcaaata taaacaatca ctctctttac cttttcagta aacacgttta ttttctattc 300
 ccagttctac gtttcacgtc aactggagcc ggatgccttc ctgatcgatg tgggacacca 360
 tttagatttt tcaatgaagg tgaaggacct agaggagaag aatgaacagc attcttgctc 420
 aactcagggc tgttttttgc tgcctttgag atagatctca tagtctttga tccaattcca 480
 ttggtcacgc tgctaagttt ggaatgatta aattgccaaa gtaagtcagg ttctgaggaa 540
 tcaactggtg cagcatcaag ctcatctatg atgtcatctg aaccccgaat gttaaactgg 600
 ttggctccca tgaacatag 619

<210> 31507
 <211> 587
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075a10d1

<400> 31507
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 gtatactagt gtatacacca tattcaaaga tagctaataa atacttgact gtataattaa 120
 tatcacacaa acgtaaagtg gcaatatata gtgtaaatat atataagctt aattttatata 180
 cagaaacat gagtataaag catctttata caaaatatc aacaagaatt tactttatta 240
 ccacatcatt atagtaaaat gtcattgataa agtgggtgaaa ttctattgaa tgcttggtgc 300
 aagatgtttt tataggatca aagtgtgtat ataaattaaa ctatattttt taatcaatat 360
 atatatattg ttcacacatt ttatatatat atataagagg tgcttaacaa gttggatagg 420
 caataccaca agaactaacg gtttttttgg cattaggaga gttaacatac tgcttcaagc 480
 taggggtttt gaggtagcca cagaagcatg gcttttgctc cttcagcttc tggcaacaag 540
 cactccaagg tgcagaacct gaattaattg ccggaagaca cggagtc 587

<210> 31508
 <211> 535
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400075a12d1

<400> 31508
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 atacaaattt ttcacgacat atgatattac aaatgactaa aacttctaga taacaacgaa 120
 caaaagctat ataatgaatt cccacactac cagcgagttc aaaattattg cataccaata 180
 atttcaagaa cccttattaa ctttcacttt caaagggatt ggtacaacaa tatcatatgc 240
 taataaatat aatcttaaga tgaagaagca ggtttggaag atggggtgaa aggaacctgc 300
 tcagcgcagtg taaggatttc atggggccca gcctgttctc gaccaacacc tagaagggtca 360
 agataatact ggtaatggga aacgatattg ttcacgagtg ccacatcacc ttgtccacaa 420
 acaccatccc catagagaat gtccattgta gtgccaaatc caggaagacg attctccata 480
 gtatcattct tgctaggctt ccagttgccg acaaaggcat catgcgcaga gggct 535

<210> 31509
 <211> 533

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075b09d1

<400> 31509

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 atcatgttta ttaagtacca ccatttgaca ccaaagatat atatagacac ggtggtgaat 120
 tacatgatgt ctaataccac cgtttgaccc tatagggtgtg gagtaaaaga aatacattat 180
 tggacctctc aataaagaca ttactagggtg ggcgacgagc ccgtatgtga tctgaagttc 240
 tgaactaata gttgagcttt agtattatat gtacagactc agctacatta gatagagatc 300
 tgcataagat aagatgtaag tctagtaagg atgagagcta acatttgtgt tatgaatctt 360
 cccatgcaca ttggaatctg tctatagata ggatgggtttt gagaacagca tggatgcaga 420
 ctggtaacgg cagaatgtaa tatatgagcc acatcatctg gagggatttg ccgttcagta 480
 catgtttgaa tcatgattaa tgtagcatca cacgaaggga taagatctga tgg 533

<210> 31510
 <211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075b12d1

<400> 31510

aatatcatca atttatatat tcattactaa ttaattggtg tcatctgtta attagtaaaa 60
 aagacaatga aaacttgtag aacatacatt ttggatatta aaagaaaagg ggctaataat 120
 aacaatgaca accctcattt gcacaacatc tggcaaacia ccaagcaata atttaaattt 180
 tttagtagaa aaataaacia aaggattagt caaactaaca ggaacaaaga aatgaacta 240
 agccccttat catagtagat gacgaaggag aaataggag aggatggtgg atacatcact 300
 cgtgggagat tcttctcaca tcatctttgt actttcttca atcctgcttt acctgttgtt 360
 atacctgaca atgtaacagg tagcatatat gatagcgttg tttgaaccac aaaatcaatt 420
 ctatttccaa atctttacag atttgtcatg actggccgaa gcaaccattc ctgtaagt 478

<210> 31511
 <211> 562

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075c08d1

<400> 31511

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 tcacatttta aagggatagt aaactcgacc ttagtgaaaa atattgggaa tgcagaaatt 120
 catccaccat agtcctttat acatgaagta caattctagc tcgtagaggt ttctactcaa 180
 tcccaaacca cgaccaaaga tcagtaaaag tataatctaaa atttatgata cttccggttg 240
 agcatcagaa ccttggtctt catcttcttc acttcagca tccttaattt gggcttcac 300
 atgtagactt ccagcttctt tattcttttc actgaatttt aagcgaagcg gtcgtcccat 360
 taactccttc ccatccacag tataaatggc agcctctgca tactccctgg taagaaaaga 420
 aacagatccg taccagcag atcgccaga aaggctgtca aagacaacc tggctgacga 480
 tggcgttttg aaattctcag cgaagacttg tctgagatgg gtagatcttg ctttccatgc 540
 aagggtggat gcataaatta ca 562

<210> 31512
 <211> 497
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075c10d1

<400> 31512

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 tattacaaca aaaaaacaga ctttagaaat ctgccaagac taaataacgt taccagccaa 120
 aacctaagg gtaaatat cagcagtt taactgcatt atgcaaaca aagataaaaa 180
 ccatgcagaa attatagaac ctctactacc ataaattgca ctactgttga gcacattgca 240
 ctggttgacc agatgggtca tcatcatctt catcatatgc ctgcgatat tgctgttgct 300
 gctttcgtct catctcctcc ttaaagtga catcatgcaa agtggctctc tcacaatcat 360
 gcagctccat gtctgacaca tgcttgctgc tcttttgagg taacaccttt tccagtaact 420
 ggcatgggtc aggggaaaga aaccctgagt ctgggaaatc aacattaac tggatgtaaa 480
 ggcgaccctt catgaat 497

<210> 31513
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400075c11d1

<400> 31513

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 agaggcatca ttaaagagga atcaagcgaa gacaaataac acagcttgac attaacatag 120
 gctactaatc aaattagaca agacaaataa catagctaga gtctaataca gtggccaaat 180
 agtcccacaa ctcatagcat tgttcatgac tccattgttg atgttggtga aagtcataac 240
 caagtttcca agtgctgatg aattctgttc accaactgtt acaccattgt atgaggcatc 300
 attaccatgg acggtgatgg ttggcgaaac atgcgccatg cggcgaagat tagtcgtggt 360
 cagttgcggg ggtgtgctca tttgatgttg ctgtgtctga agaagctgat agtttaacgt 420
 agtaaaagag ctccatgtga ccatatcttc cgctaacttc accttggttc tcaaagcttc 480
 tacatctgat tntagcactc gattattcg 509

<210> 31514
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075d07d1

<400> 31514

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 aaaggacaat agcaaattct accaccaatg taaatcctct tggaacaaat catgggacac 120
 gtgatctaatt cttggatgtc atcctcccat atgcttcaaa taccaaattg acatcacaga 180
 tgagtcaaaa ctggtctgac tgaaaatttt ctattacaag gctaagtgtg ccacagattg 240
 aaactttatg cgtgagcata aaataccaag gctaccaaag atgctatcac taaagaaaac 300
 aaggaaacct tttgcctagc accagcatta ggtaaccacg gataagaatc aggtggtggc 360
 attacacagt tgtcaccggt gaagtagacc cttcgaggaa aagcccaacc cttatcaaaa 420

gtaaaagttg ctttatcctt tcggaagagt agctctgatt gaacattgcc attagggcca 480
gcttggttga gaatatcatt atagaactta a 511

<210> 31515
<211> 428
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075d08d1

<400> 31515

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taccaaacat taaaaaaaaa aaaaagaagc aaccatgagc ttaacacacc catcacaagt 120
ccaaaacact tgaacttgct gaaaggcaag acatgaccac tttattctaa ggatgtttgt 180
ttaacacaaa acaccagagt gcacgaaaac catcacagac ataatacata agtttttagc 240
tacacattaa tagtttatca ttattcctaa ttaagggcta tctctgcttg aagcttgctc 300
tcccaacacc tcacttgcaa gtgcaggggt tgcaggagca gtttggtcca catttgagc 360
catcggcttc agcgggcaca cccatttgag caccctcaaa ttgagcctta acaggtgcca 420
ctcccatg 428

<210> 31516
<211> 604
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075d09d1

<400> 31516

cttgataaaa cttttcattt ttttttctca atcaatcatt aggtgtaatc gttgaagggt 60
cgactcatac taaaaatagg attaagatca cgtcactgct gctactgctc tattatTTTT 120
gtccgataca ttgcaacatt aaccaacag gcaccccggt tatatagtct ctctgaagag 180
gacgtggaat accagattct caaatatatg cttcacgaac ttctcactc aaaacaaaag 240
gcaccccgaga ttctcacttg aacgtgacac cacgtaaaac acacagtttt ataggaactt 300
gactcctgca aaaaatacag aaaaacttat tgctatgttc ctttctgagt gacgaaaaaa 360
aaacttcaaa cttatttatt tatccctcca tttttcattg tttaagacaa atttttaaca 420

aatttcgtga atatgacgta aatgtaaact tatccgaaaa caaaatgcat tgaattacaa 480
 atcacgcaaa ttgtcaatta tggcgtctat atccgggggtt atagaaacac gcttgctgat 540
 ctcccccaatt gcgcaacaat gatcttgagc ggtattgata gcacccaaat cttgggcaca 600
 ggca 604

<210> 31517
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400075d10d1
 <400> 31517

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 tattattttc tcccttgta acagccaggt gggataatta tgaatattcg ttcataatca 120
 ctatgaatga tgaacagggt gagtagtgcg tcgtccatgt tgcgttcctt gctcacgtac 180
 ctttacgcga agaccgccgc taaaagttgc agtgaggcct ggcgagaaac gtgggggtaac 240
 tgcatgatg atgatgcggt ggtggagccg ccaattcgat gtggaacctc cggagcaacg 300
 aatgcgccac actcttgagc tccaacagtg ccatctcgtt cccctaacac acccttatcc 360
 ccgcttgaaa aaccggatac ttgaacggat tctgagggca aaaaagtcct tccttaacca 420
 cctgtctggc c 431

<210> 31518
 <211> 615
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400075d12d1
 <400> 31518

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 atctaatagc tacattcaat gattttatta cctttgtcgc catttatata tacttaattc 120
 cctactccaa tattacaaat caagttatac aacacatatt cctacatata ccgtaccata 180
 agggataaat ttcataattg accacccatg tctttggaag aatgtgatgc aaggcctttt 240
 ttcacctgct tcattttcca tgataccatc ccaaaggcc ttgtccattg tctgctttat 300

tttccctca gtgtccttgg agtcaaaatc catgggggtt gccacatgga aaacaccagt 360
 gcaaccttta atggcttcat caaagcttcc ctcttgagca agatcagcct tccacagaga 420
 caatttggtc ttggaatctg gcggtccac caaatgcttc accttcttca tgtagctga 480
 agcatgcata taataataat aataataata ataataataa taataataat aataataata 540
 ataataataa taataataat aataataata atgtaataaa taaaagtggg aagtattatt 600
 tatatatatt ctaat 615

<210> 31519
 <211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400075e08d1

<400> 31519
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 agtgaagggt gagtccttgt tggagaagat ttctgggaag atccacgacc acgattcgtc 180
 atcttcgtcg gattccgaca acgagaaaac cagcgcttct gactccttga agtcaaaggt 240
 tttcaggctt ttcggcagag aaaagcccat tcaccatggt cttggtggcg gaaaaccggc 300
 cgacgttttt ctctggagaa acaagaagat atctgcatcg aactcggag ttgcgaccgc 360
 tatatgggtt ctgtttgaat tgcttgagta ccacctctc accttggttt gccacttctt 420
 gatccttggg ctagcgggtg tgttcttgtg gtccaatgca tccactttca tcaacaagag 480
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<210> 31520
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075e09d1

<400> 31520
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gaggagaaga aacagccagg atttggatc aagagacaaa tagcttatga taaacaagg 180
 ggctagaaaa aggtctttcc tatctttagt ggtctaggca aagagaaatt tgctatacgt 240
 aactggtgc acatatgcag aggtctaact tagtggatta tcatggttcc aggttcaagg 300
 aaacaactgt tgattgtctg atggatactg caacctttaa gaacactgta gataggcaag 360
 ccggtgcca ccatggccgt cgcaccttct gctccctat cagacgagcc actttaatcc 420
 gtcttaatgc cttgcataat gtgatgaagt ctccccactt catgtggcaa cgtcttataa 480
 aacgtaggat ctgctcagtc gtaaacaatgg acatgccttc caggtatagc ccattaacac 540
 cattttc 547

<210> 31521
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400075f07d1
 <400> 31521

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 attatcatta tggctgatca gtatttgaat actggacagc cattaacctg aattcctggt 180
 gcaattgggc aagtggccaa tgggcaatgg tccaattaac tttccacca tttgagatta 240
 tggccagcat tttgcagggc caagaatatg agaacccca taaaagctgt gcctgaatcc 300
 agtgctgcag attgtccata attgaacttc tgccaccagc gtttggttg acggaacacg 360
 aagttattga agatctttcc agtcactagc cagcttgcaa ttttggcaag agttgctg 418

<210> 31522
 <211> 552
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400075f09d1
 <400> 31522

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gtgttgagtt ccagatttaa taatagatta aatttaaata attgaattgg tacaatgtac 120
aattatatta tctttcaaga catcaggatt ttggaattgt tctagtttag aggagaaaag 180
tcatctagtt tataactaca ctgtttttga attttagcat ctatcaattt aagtaattat 240
aatatttgat agatgaatta tatagtcagt tatattaata gaaagcagag cttaaaaggg 300
acagtaaaac agaaagttgc aatatattca ccaaagacaa cagccttgtc ctctcaacca 360
acaaccatga attcaggtcc tagcgaagac ggacacacaa aatatgtata acattgatcc 420
agaaaatgtc ttaatatcc cattttctca actccatgcc atcaggagca ctccctcta 480
ccttctttga tcccacttct ttccagtttg tagacagcac tgtcccatta gactcaacan 540
aagacttttt ca 552

<210> 31523
<211> 555
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400075f10d1
<400> 31523

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ctacttgatc aatcaaaatg cttctttgaa tcagtaggta cgaacaagta ctcaaattag 120
tacataagaa ctactttct cctccccttt aagctagatc acttggaata caaaaactta 180
aattttacat aaaaaactgt tgagacaaaa ggctaaccag caagtggatt agcatgtatt 240
gttacacgat tgagccttat ctctgcaagc ggtcagaccc ctgcccctga ctgagtttta 300
ttcatgagat caagaactga agatgcatgg cttactttgc caaacacggg gtatagccca 360
tttaaagtag gctgctttgc ataagtcaag aaaaattggc ttccattagt atttgacca 420
ctattggcca ttgctaataa tcctcttgca ttgtgcttca gagattctct tatctgatcg 480
ttaaatactt tgccccatat actggttccc cctttgccag ttccagttgg atctccacct 540
tgaatcataa aacct 555

<210> 31524
<211> 508
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075f11d1

<400> 31524

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cattcagaaa catgaaaaaa agagaaactt cactgagttgg gtatttttat ctttaciaaat  180
atgtgaccaa cagccatatg acaaccacca aaccactat accaatcact gataaaagca  240
tgcacaagca ggagcaacca cccttggtac gtttggttaa cactgccaag ttcttctgca  300
ctctcctcag ccgagaatct gtaacatcta catgttggtc caagtcacca atgagtctgg  360
tatgtagatt cagctcttca ttcacagcca atgcaatatg tttagtactg attacagtct  420
cctccaattt ctcaaggcca tcgtctggct ctttcataat ttggccgtga agaccaacta  480
gtccactgtt gtccaggcca acagttct                                     508

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<210> 31525

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400075g07d1

<400> 31525

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catcattcca ttccaggcta ctactcttgg cttctctcgt cccgttccca ctgtacacta  180
accaatatta ttattcccta aaaataaaat aaaaaaagga aaacagcttc cttttgtttg  240
tttctctacc cttgatcata gttcttcata aacctcattt tgtgaaaaca ctaattaggt  300
cataatagta ataataataa taataattac gaatccaccc tgctaataccc aattctcttc  360
accgacacgt tcctaaaccc ttgcatcatt ggcataccct gaaaacacat cagcccatac  420
tgctgctcca tgtaactgct cacctccttc cttatcatct catgcatcac cgccatagac  480
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<210> 31526

<211> 389

<212> DNA

[illegible]

<400> 31526

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tttggaaaca	aaaagattga	tccataagca	gatccgggta	ccggattttt	accccaatat	120
gggaaaatat	taagtcaccc	ccttgggtccc	taacccaaaa	agctccgacg	accttcgtta	180
tcagtaaaca	gagagtcaca	tgcaggactg	ggcacactca	ttcatagttg	atgaatgcat	240
attgctgctc	catgcctcca	taaagcttaa	cccgcattgc	taggccaac	aatattacct	300
aattttgccc	aatccagat	gttttgcatg	ctgatgggtg	actataccat	tggacaaaaa	360
aaaatttgag	ttcttggata	taaacatgc				389

<211> 612

<213> Glycine max

<400> 31527

gttaaatggt	aacgtgtgtg	attatttata	tgaatgatga	ttggcccaaa	aaagagttat	60
catttaatta	agttacatgc	acaccagtga	tttacattca	tcctattcct	atcctaattg	120
ccagcaaagt	gaatgtaaaa	aagtaatcaa	atgggttagat	tctcctgaat	ggcaatgaat	180
gacctaaca	tctttctcc	cacatccgga	aactcttcgt	ggcccgggag	ggatcttacc	240
ttaccctttc	gacgacttc	taccgggtac	ttgagcagat	gcctgtcat	ttctgttaca	300
tcatttgatg	caaattgctt	ccagttcagc	tcacccattg	ttctaatact	actaacacat	360
tcaaggctct	ctggttgtaa	gaagcagctt	tcaatcgta	ccgtatgttc	agcccaaatg	420
gacatactat	atccatggat	ttgcccaaga	ggatgatact	ggcttcttgc	ccagggtatg	480
tgaggttggt	acgcacccat	tgcaatctcg	gtgtcccttg	ttacttacat	agagcgctgg	540
ttgatgtttg	cagaccccat	tatgacatat	tcatacatca	ctatcatgcc	ttttgaatga	600
acttaaatca	tg					612

<210> 31528

002250"ETT5560

<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075g11d1

<400> 31528

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gagaagaaga tcaagttact gtctaaagtc tcaataactc ttgctaaagt tttttcctct 120
tctttttaca aatgctcatg tttgggtctga aatcagcttc atattgcaca cacaatgtag 180
ccattggcag tggcgtgctg aagcccaaca tgtcaacttt tgggtgctgac caattcgatg 240
acttcagacc caaagaaaaa gtgctaaaat tttcatactt caactgggtgg tcgtttaaca 300
ctgcatttgg cacttttagcc gctacactgt ttgttggtga cattcaagag aggtttgggt 360
ggggattgcg gtatggaata tcagcattga agcatttcat ttggacgtag aggcatacaa 420
acacatgggt agtatcgatg gattgatcct cgcattgtg 458

<210> 31529
<211> 529
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400075h07d1

<400> 31529

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caaatccatc tacgtacctg gctacatcca ataccatata caatatatat accccatccc 120
caactttatg aatcctataa ttaatatata gctaacttaa atctctgcaa gtatagttct 180
atatgtact attcaatggt tacagggagc tagcatcccc tcccatgcca ggaattccag 240
tataccagaa tcacggtaca atatttcata attaggggact gcatgcatgt gtatatatat 300
gtcaatgaaa ataacataaa ccctctactt ttcttttctt ggtgctgcta gcgaagttaa 360
ttagccaagt ctagagaaac actcatcaga actctaagat ttctctcata aattatccaa 420
tattggttta gctagctagc tagccatcag ttcttacttg ctaggccacg aaatctggta 480
ataactgatg agcaacaaac ctctatctgt tttgaatata aatgctctc 529

<210> 31530

<211> 565
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075h08d1

<400> 31530

gaaacaaagc aacacaacac aatagcttat tcattagttc tcatccatta atttccattg 60
 aagtccgaaa acagaaacca aaaatacagg atgatgaaat ctcaaaaagc aaaaacaaat 120
 gggaatgtag ttttaagtaca aacaaacaaa gtgggggtggc ggctacaaat gctttgcaaa 180
 tttttcacac ttagaagcct gggggcttgt aggcgatgaa gctgatgcac tgcacttggc 240
 gaacgttgtc gaatccgatg atacggatga agccgttggg gtatgcagtc ttagcctctt 300
 gaagctcctt caacacctga gaagcatcag tgcaaccaa cataggcagc ttccacatgg 360
 tccagtagcg tccatcgtag tatectggtg acctgttggtg ctacaggtag acgaaaccgt 420
 gtcceaactc gaattccaag caaggaatcc atcccttctt aagaaggtag tctacttctt 480
 ttgccaattg tgcacatca aggtctggca ggtaggaaag agtctcaaac ttcttcttgc 540
 caactggtgg ccacacctgc atgca 565

<210> 31531
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075h09d1

<400> 31531

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 aaacgcgtat aaatggaagg acaaactaaa atagcccagt acatccacaa ttcataacga 120
 agaacacgaa tgcccaaaat cttagtaaca ttgagattag cattcaacac cttctccctt 180
 tgaaaacatt acagaagga agttcaatga ctaataagca gagagtatgg tatgtttaat 240
 tttgttcccc gtcacctttg ggtgcggctt ctttaatttc atctgcacca tcgtcctgca 300
 tgtcagaggt ccagaggggtg aggttatcac gtagcagttg catgatcaaa gtgctatcct 360
 tgtatgactc ctctcccaat gtatccaatt cagcaatagc ctcatcaaaa gcctgttttg 420
 caaggctgca agcccgatca ggagagttaa gaatctcata gtaaaacacg gagaagttca 480

gagcaagacc cagcctgata gggtaggttg gaggcaactc ggtattagca at 532

<210> 31532
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400075h11d1

<400> 31532

caagacgctc aatcttggtc attcatcaaa acagcaatta tgctatctaa caaagtaatg 60
 aaccgggttt atgatgtacg actaaatgat tactcaggca tcccaactct gagaaatata 120
 aacaaagcat aaaactgaaa taaattgact caagatcaag gaaaaactct cgtagtagta 180
 gcccgcaatg taacaaaaac aatcaccaat gataaagcat ataggttgat tcttttaatg 240
 atattttggt ggtggctatg taggatttac tttctccaat ctggaaggac ataattgatt 300
 ctccaaactg aatcagaagt ctttggtata taccagatgt tcaaggagtc acaattttgt 360
 atgttttcta accatcacia attcaaaaca cagcagatg gatagcttaa cctgctgctt 420
 ggaaatcacc aaaatcatca tctggtacat cctctgtgct tcgattctca ggagaattct 480
 catgctctgt gtcttcttta actggttttag gagtct 516

<210> 31533
 <211> 507
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400075h12d1

<400> 31533

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 aaactctcac tctaattttc aagtcactgt gtttctcttt gtttcactat tgctatgctc 120
 actttccggg gacaaagttt gtagcatagg ccaggcatt attgtttacc gggtcagcta 180
 ggtgatcagc aagggtttcc aaaggtccct ttcctgtcac aatggcctga acaaagaaac 240
 caaacatgga gaacatggcc aacctaccat tcttgagctc tttcaccttc aactcagcaa 300
 aagcctctgg gtcacagca aggccaatg ggtcaaagct gccacctggg tagattgggt 360
 cagtcacttc accgagaggc ccaccagcaa tacggtagcc ctcaacagca cccatcanga 420

taacttgagt ggcccagatg gcaaggatgc tttgtgcatg gatcaggctt gggttgcca 480
agtagtcaag cccaccctta ctaaata 507

<210> 31534
<211> 377
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076a01d1

<400> 31534

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gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaactc caagttgaag 120
acaaacccaa atcacatcca cacaagtaaa aacacgtggt atggtactta gtcgaagaat 180
tcccaattga acttgggagg acctgaatta ttggtcactg aggaggggtg ggggtggtgat 240
gtggcttgca cagggattaa tgggtgggaca gaatcaaaca actcccaatt tgtggtaact 300
acaactcctg aggtggaatt ccttgagggt tgttcttggt gctcttgata tagtgctaga 360
gaattctcac ttgagtt 377

<210> 31535
<211> 450
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076a02d1

<400> 31535

atgataatca ctatcatagc aacccccattt attctcaagt aaatgacaga ttataagggg 60
gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaactc caagttgaag 120
acaaacccaa atcacatcca cacaagtaaa aacacgtggt atggtactta gtcgaagaat 180
tcccaattga acttgggagg acctgaatta ttggtcactg aggagggcgg ggggtggcgat 240
tgtggcttgc acagggctta atggtgggac agaataaac aactcccaac ctgtggttac 300
taccactcct gtgggtggaat tccttgagggt gtgctcttgt tgctcttgat ttggggccag 360
agaattctta cttgagttcc ttgggtgttc ttggtgcoga tcctgaattg gtgctatggg 420
ccatctatga ccttcattta aatgcttttg 450

<210> 31536
 <211> 133
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076a03d1

<400> 31536

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 aatcttttca aggattacac atgctgtaag caaccaatct tttgggggaa gggggccaga 120
 ttccaggtta aaa 133

<210> 31537
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076a05d1

<400> 31537

agctagtaaa acaaaactga tttaaataaa agttacatca ctttgaacat aacatttggc 60
 aagatgaaaa acaaaaatgc acaagctgaa aatgaatgga catacattac agaatacaga 120
 taccgaattg ccatcaatca attaatagcc tagccttgaa ttctttggac aagattccca 180
 attgtcacta atatttaaca ggtttctcag ttgaataacc atgcacttta tcagaggatg 240
 gtattgttat ttgatttgca ggaagactgc aagaaggaaa cacaacaagt cacagttcca 300
 aaccttccaa aatctgcatg aattgatcac gggtgaaact cctaaagcaa catgagattc 360
 ttttaaccggt tccttgagat tggtttcctg gttcaagttc cttctggaga ggatggggtc 420
 gggatagcaa gctaagctgg ctactttcca tatttgaaag gtacctgaa 469

<210> 31538
 <211> 379
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076b01d1

<400> 31538

caacccaaac taggagattc atgttcataa tcatatacac catgcaaaag cagacaataa 60

gtgaagtctc ctagtgtaac gtacacacca aatggtagat tctcacgaag ccaaatatgg 120
 aaaataaact ccaaaagaag agcaagaaga aaccctaaac catcaaatta gaatgggcta 180
 tttggataca ttgttctttg acagccctga agtaccgttt tcttttcctt tcccagtttc 240
 cttcccgttt gatagggtag gtttagccaa ggctactttg ctttcgttgt ggttcattctt 300
 gtccaatttg gttttttgca cctggccatt gagattcttt gtttgggtgg tctgaactcg 360
 aacccgact tcagggacg 379

<210> 31539
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076b02d1

<400> 31539

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 atctcaaatac aatttgtttt acaaaatcaa aacatacata caaaattcgc aggttaagaa 120
 accaaccctt caggaaaatc ttgaaagtta aaacacttca gccaccttgc tcgcaagaac 180
 ccgctccctc cgttcaatgt aactaaacgg aaaccaacct gccctgcctt tgcattcacc 240
 ctcggcccat ccgctgtttg tcacctttcg aacaacaacg taatcaccaa ctgatagatt 300
 tagctccact tcagatacag cagaatatgg aaataaaacc tctcctaaga agtaacccat 360
 gctatctgtt gatccattgt gtgcctgaga agcaaagaca ccattcactt cttcatatga 420
 cggaggtggt ggcattgctg tatccacact aagagttgtg ggggtttcaa ttcggtgtcg 480
 ctctgatgtc acctctccct caagctgac aagtttttgt agactatttg atga 534

<210> 31540
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076b05d1

<400> 31540

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 cgatccatca aagggtactat aacgcaaaga aacctcacac tctaagatac attttatgat 120

taactcattt agctgaaagg catagctaga aacattgttt ttatctactt cctaggtcga 180
 accaaaaaaaa aatcaaaact aaaaagggaa ataacaaagg tttcataaaa tcagatttca 240
 tctgttatag gaacatcatc tgtaaccccc aactacacca agaggacaaa gaacttcaca 300
 acaccaaccc caaaacaacc ctaccccacc gaccactctt tctcacttac taccctctct 360
 cttggcacga gccttttggg ccggagactt tacactcttc ggtttcacac tcttcactgg 420
 cgttttcttc gctgccaccg caactttctt tgccgcgggc ttagcagcag gagctgcttt 480
 ctttctgtgt gaagtcctcg tcgacgtcct tgaagacctg acaggcttg 529

<210> 31541
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076c01d1

<400> 31541

atacaaacag aatttcttca ttaacactta acagcaaaca cgagaacatt caatcacccc 60
 aaatacataa cttaaccata cataggtaga tgaaggaatc atattccttc tattcacttt 120
 tattgaaaac cagggaaagt actgcaacaa ccatagagcc cctagatgga gatactgttg 180
 ggaattcctc tgaaagtcaa tccctcctca ctagaaggat agagcaaagt gtaaggcatt 240
 ttagccggcc cactgcggtt tctcaacgtc tcgtccttgt tcttctgtat aagcttttgt 300
 tcaatctctt gaagcttctt tccaaacctc ttgaaggcct ctagtggacc agcatcagaa 360
 gtccaatagt caccaccatc tctctcccca aggtagaact catc 404

<210> 31542
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400076c02d1

<400> 31542

gtcataaaaa tataagttgg aacatcaaca caatagataa tcagttgttc acatagtctc 60
 atacaagcat aacagtttaa tatgggtgat cactgataag aacacaaagc aaacaatcct 120

agatgtggac agatacacac aattttcatg ttacactggt acagacaatt tcaggttcag 180
tagctatggt acatataaaa cacagttaca gaattcataa cctaatacaa ttatatcagt 240
gtctgtgatt ctacaagcac actcatgggc ttccactcta tcacacaaca tagaatagag 300
caaacactgg ttacgctcaa gaggcagaga cagttggctg aaattcctcc tcggatcgat 360
tcaaggaaat cagttctggt gcattgtcag cacagaagtt gttctctatg ntngtcagcc 420
actttttgta gttgatga 438

<210> 31543
<211> 446
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076c03d1

<400> 31543
accacaacaa gaagttcaat atatcacatt tacaatacaa agggatctca ttttgaaaat 60
tagagtgaaa aaaaaaatgg aatatccaaa ttctggtttt tatcataaaa acccaacata 120
aacaagaggg ttgattgaca ggtcacctca tcacaaacag ttcaaactaa actctattat 180
gtagttctag ttgcatgtat gtctcaagtc caaatataga tgacaaaagg aaatgaaaaa 240
agatagtttt gatattatcca gcaaacagtt gacattaatt gactccaagg ataaagatct 300
ccacctctc acaaaaatac agcctcagtc ttctttcttg attgagtctt ttaattcacc 360
accggaaggt atcttatact gaagatttgt tattgtagtt ttcaacagac catctccaac 420
tattaacctc agcatcttca caaaat 446

<210> 31544
<211> 464
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076c04d1

<400> 31544
gcacaaactg taataccaaa ttaactgttg ttaaagttcg tttatgtttt acagattata 60
aaaatgtata acacttaatg tagtccatat aaaactgaaa tgagtcccat taacagttgc 120
ataccgttgg tcaaaagcat ctaaagataa cataaggtac cgggggggat aaaaacacca 180

cctagaaaca ttgtggcggt ccatatgggt gacagccaat gattcctcaa atgtcataca 240
 agaaatcctt aaacaccttc atatggtcgg gctgaagagc tatggccaca gataagctcc 300
 catcattggt tgagcttga attatgaaag acaggccctc gtatgcaatt ccaccaggtc 360
 ccatgaatat aggcctttcc caaccaaagt cagcatcatg gattggaagc ctagtccagc 420
 tagtgatacc aagatttga cacttgaaag tatgagcccc gcga 464

<210> 31545
 <211> 422
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076c05d1

<400> 31545
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 actttattgt tctctaacaa gaagagtaaa ttaattcaat tgactcactc ttattgaatt 120
 acttaatttt aacattgtta cctttatcta aaatataatt tgtacaaact cctactgcac 180
 ttgatttgggt gcaggcaagt ccaaattctt aaaagatgtg aaacctccat ccacaaccaa 240
 gttgtgtcca ctaacatatt tggcatcatc agacacacgg aaaagtgcag cattagcaat 300
 atcattgggt tcacaatttg ctccctttaa gacaccaaca ttgcgaacaa tgtgctcatg 360
 tgtttgagca tcaacatgag gatatatctg actcatttcc tccatgacaa gaagaggggg 420
 ga 422

<210> 31546
 <211> 311
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400076d01d1

<400> 31546
 aacaacaaat aaatgctaaa ttttctattg caaatatctc ttgcatgcta aatataaagc 60
 agacactaag atgtaaacad tgaacagaac aaattttcaa atactacact ataataactt 120
 atttttatat acaaaaaata aaactgcagg cttaagctct gatattgggtg aagattctta 180
 cagtatctaa aatctttcta ttccatttct ttttaatttt ctcaattcac aattctttga 240

agccaaatct ctaacgtatc catttttccc ttggtaggtg tacacatgtg gaactgacaa 300
 gggtcacatg g 311

<210> 31547
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076d03d1
 <400> 31547

ggattgggag aaactttaca tgggaaacat ttttttact tggggcaaaa gttttgaagc 60
 caaccatata aatcccaact tatagggaat ttttaaaaaa cacatgggcc ccctttttga 120
 ttacaaagga gagatgcctt attccgaaaa agttataaat aacatttcac ctgggatttc 180
 aaactaattt aaataaggca catgttttaa aaaaaataag gaaacctctc aaaacatatg 240
 ggggttttac aaacaccacc cacaaataac attttttttt gcaggggggg ttttcaccaa 300
 cagatccagg gatgtggcat ggggttttga ccaaaaactt atgcatgtgg cagatctttc 360
 tagggtaaaa agggaaacca tgggatgccc ttccattttt ttggtgcctt ttgggccaat 420
 tcaatccaca aattt 435

<210> 31548
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076e02d1
 <400> 31548

aagcaaaagg tcttttgccc tgatattatt acatgaacaa atcaccttaa agttgttgtg 60
 atttatagt ataaatttta gttgaaacaa cttattacat ttacaagaca aaaagggcaa 120
 ctgtgattta cacttttgag tagtatactg tctcatgtat atatataaaa aagcaaaagg 180
 gggaccaagc tgtagaatga gaatcctaag aacaaataat tgcactaaga aaacgtggca 240
 catttcacca agcaaatcat ataaccaatg gcctgatatc tacggaaaat tcatgcttct 300
 ggaatgggtg ggagtagttt ctgagcaaac tgaagatgcc catgattaac ttcagaagtt 360
 ttaacaggtg catggaagta ggtagcttga tttgaccgga aagatatact tttcgaggga 420

actgttggtgta atgtgcgctt aagcc

445

<210> 31549
<211> 472
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076e04d1

<400> 31549

ggaaaaaaat atttgcaccc ttctgacgtg ccaaaccaat acagttcaca atgcaataat 60
taatttttttc cccgtcctac ctcatgctct agaggacaat acagtggcaa cagtcgtcta 120
acctcgcaaa aacgtcaagc caatcaaata cagtgaact tcagacatac ataattattc 180
taaagtagat tacaatgtac aaggaaaaag agaaaagagc aaacacatgc tgccagaaga 240
gaagagctga ggcttcacta actgcatatc cccttaagct ggcaattgct cccaaaaaaa 300
tagcacttgg cgtagtgtac tgtagcaaaa gcacaaatct aaacatagca tcattctcaa 360
ctagggaaat tagctaattc gacaatgcc cttcccaat tccaaggaca ggagggtcca 420
ggagcccttg caaaagtaat accaatagta gttttaagcc caagtttaga ct 472

<210> 31550
<211> 327
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400076e05d1

<400> 31550

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tcattgcgac atagttgagg gcatgtccaa gcctcttacc taaagaatca aaaataatat 120
tacatgtgaa ggaaaccagg aatacaacac agtcttttct ggttccaacc ttacttcctt 180
ttatcctatg attgggcac aaactatgt cacctccttt ctcttccttt tgattttgca 240
tcaaaaggat gagacttaag cttttttttc cgaatgggag tggaaggacc acttcctctt 300
ctgaagggtt taccataag agctaac 327

<210> 31551
<211> 430
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076f04d1

<400> 31551

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gtcaataact attttactgt tattaagact gcacggtcag tacaacattg aggaaggtgc   60
ttacatcggg tcctttgtat tgtagccttc ttttcaattc ttctctcttg ctatgctatt  120
taagtacatg acttaaaactt caatcaataa ctatagttga aaatacatat accaccaata  180
tattgcttac attataaaatt ttcttgagaa caaatgaaag taaataaaaac attaaaaacc  240
aaagatatcc acatgtactc agatgtcagc acagcattga attgcttgat gactagtata  300
gtagcactca tcgcctcgaa ttcattggtg gaagctgtac ttattaccac catgggttcag  360
cccgtacttc tgtctcattc gcgagctcca aaaatcagag tgatttccac tattttcacc  420
tttgctagac                                     430
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<210> 31552

<211> 452

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076f05d1

<400> 31552

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gactaatagc actcgaatta gcaaccagat acacgcacta tttctctcgc tcataaatat  120
aaatgacaag taggaaaaaa aagagaaaga cacagcctc actactatgg tcccatacac  180
cttataagat atataggtga tgcagcagtg ggagataatc taatcactgt cactgctgct  240
gctgctgtca tggccatggt catgcttctt attctcctc ttcttcttct tcttctcgcc  300
ctcggcggtg gcgccaccct cctcgccgag gatcttgctc ttgatcttgt ctaggaacct  360
ctctttgtgc tcttcttctc catgggtgctc cggtggtgc tcaccaacat gatgctctcc  420
tttgatttca gtactgtggt caccatgatg ct                                     452
```

<210> 31553

<211> 362

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076g02d1

<400> 31553

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aaaaaagcca agtacattca tgttttaacc attgacattc atatgtatgc atgatcccaa   60
tttactgggtt tcattttctca ctatttggtc cctatatgcg agtgcacgtg ccccttgatt  120
atgcggttac accttgctaa gcataaagaa ttcaaaagaa ttagcttata aactaaaatt  180
acatggcaca ggagggaac ttaaacctgg tagtgaacta atgccaacat acaaattcag  240
tatttgtttt cctttgaaaa atttgcaaaa cttagtagaa tgacttaaaa ttcttgtaat  300
cccgccataa ggcaacagct taaaaggtaa ttccttgttt ttcttgcaaa aactttccca  360
tg                                                                    362

```

<210> 31554

<211> 472

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076g03d1

<400> 31554

```

gaaaaacaaa tgtattattt ttatttatgc tagagggtgac aaaatatctt gatattaatg   60
taaataaacc tgaaagaaaa atgcggtgga tctccatcct tgtctttgga ggtgcaacca  120
ggtcttaact tacagactag gagcggtgac caattgacag aagggtggatt cttgcatcca  180
attcaattta cataaccaaa gatgggcctt agacagatta ttaataagca ttattctgaa  240
atgggggaatg cctctcaatc caagggtttc aagaaccact tgttaaaaga tgccttcctt  300
ttaaagaatt ggaagccaaa tgatattttt cagctccatc cttaagttct cgataagtaa  360
accattggg tagagaacca atccaatttt ctggtcccag tgacaagata acctccaaca  420
gccctttttt gcataaaaaa gactgtgttg atgggttgag cgcccctttt gc           472

```

<210> 31555

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400076g04d1

<400> 31555

gaaaaacaaa tgtattattt ttattttattc tagagggtgac aaaatatctt tatatcaatg 60
 taaataaacc tgaaagaaaa atgcgggtga tctccatcct tgtctttgga ggtgcaacca 120
 ggtttttatc tacagactag gagcgtgtgc caattgacag aagttggatt cttgcatcca 180
 attcaattta cataacaaaa gatgggcctt agacagataa tttaaaagca ttatcctgaa 240
 acggggaatg ccttacaatc caagggtttc aagaaccact tgtaaaaga tgccttcctt 300
 ttaaaaatct ggaagcaaaa tgatattttt cagggtccatc cttatgtctt cgataagtaa 360
 ccccatggg tggagaacca atcaaatttc tgggtcccagt gacatgaaaa cctcaacagc 420
 cccttttggc ataaagatga ctgtgttgat gggttgagcg ccccttttgc acagggtgcc 480
 tggttt 486

<210> 31556
 <211> 253
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076g05d1
 <400> 31556

aggatgtcag aacggaagtt accccttcga caataataaa aacgcagggg atacactgtt 60
 cactttctca caatcatttc atcaaact acttatcttt aagccacaca ctacagttat 120
 ggaacatcaa cagtattatc atcatatcat cattttcatc aattctgaat ctagcttcca 180
 cacaaaggca ttactgctgg gcgcactgta ccctctgtgc accaccaggc atgtcatcat 240
 cctcatcata tgc 253

<210> 31557
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076h03d1
 <400> 31557

aacgggaaca ccctcttttt gattttgatt ttaaaaaaca cattgggggg gcttacttac 60
 aaacagagag tacctgtttt tagtggatcc cggtaaaaat ttcaaaagaa cattctatta 120
 acaaatttgg ggggagaggg gagaaacccc cagagttaga gacgtggaaa gttttggttt 180

ttagacatat ttttaagggcg acggtcaaaa aactttccac ataaagcagg ggaatgaatt 240
 tcttaggcct tttcccactt gagggggtgg gccacttccc atgggaaggc aggggtttttt 300
 ctttaaagtg gccataggca gcagttttca aaaacctggt tttttccccc cttttga 357

<210> 31558
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076h04d1
 <400> 31558

aaaaaaaaa ttaacactaa tccgaagaat ttgaatgaaa aaaaaatgat gtaatcaaatt 60
 cacaaattca caatacagtc atgtccaaag ctcaagtgc cgacgaaaac agaatgaata 120
 attgactctg attctctaaa gaggggtcct gtctgacca attaactcaa ttttaagaaac 180
 ggcgattaat tacagatgga tggaattgta tcgtaatcga taatcttcag aattgtggat 240
 gaatgtgaac ggcgtacctt tgaatgccgc tttccacatg gagcgttgcg tgattgggtt 300
 acatgtgtaa gcgcctacca caccggactg ttacacttaa acccactccc aaacgcaatg 360
 tgccaaaccc tgtgcccctt tctgatcctc ccctttgcct tcgggtaagc caactcgtcc 420
 caaa 424

<210> 31559
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400076h05d1
 <400> 31559

gacaacaata aggaaaatta gtttttagta acaaaaaata tccatagtat aaattaatga 60
 caattattta gaacacatgg ctttaaggta aacagaatga tacaacttac agctgatctg 120
 gaaagacaac aaagcaatga atcgagagat ccctaaaaac acagaaaaaa cgttttcctt 180
 agtatataaa gtgcctcaac atcatgttta gcagcgcatg gtctctacat taaaattaca 240
 tagcagcaca gattgcccta tatataaatt cctacttctc caggaacata caccaaggct 300
 ttggggctta tgtgggctat attgcctact ggctaacgaa accaaaggga ggaaaattgg 360

cgtttttttta taaaaccaac cagttaaaat tgggcagaac acttgggcaa gaccacccc 419

<210> 31560
 <211> 412
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a01d1

<400> 31560

atatatataa tccttaaaat gtaatttgct attcgatatt ggcagggtac attgaacttg 60
 ttcatatttc ttttcctaag agaaaattac gtttttccgg gaaagcttg gaaagtagca 120
 ccacaaccac aacctgaatc tcaaaaccca aatgcagctt gacatgaatc catgccaaag 180
 aacttaaadc tttttgagaa attccatgat gttggtattg aaagcacagc aaacaactcg 240
 gaaaccttgg aatccagacc ctttggccag agcctcaaac tctttctctg ttctctcttt 300
 cccacctgga ttatgtgcca acatgatcac atcgatgtga accacacctt ttgtggccaa 360
 gctagagtct ggagccactg gaagaatgca ttctgccaca aatacctttc ca 412

<210> 31561
 <211> 468
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a05d1

<400> 31561

gtcataaaac atttccaact tttcatcatt cacgggaagt tctagaagtt caaaatatcc 60
 aaatataaaa cccgcacatc aaatcaatta ttatacatc atccatcata ttcgcaaact 120
 tcaagcaaaa tacaggattt tgcaaatgtc acgataagtt acaggaaatg tacagaagcc 180
 taacagcaca ttgccagcga cctgcaacct catcttccac gccttggtga caattcagca 240
 gatcttgatc tagatccagg tggatgatctc gacgacttgc actgaccacg atcagcatca 300
 gacttgatca tagatttctc agcatatcca ttgctttgat tctgttcaat accattgcca 360
 taagcaggag aataagacct acgcttgtgt tcaccatccc tttgacctggg aggacctctt 420
 ggtgatctgg ggtgctcagc ttgcctccta agggaaacag agtaatca 468

<210> 31562

<211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a06d1

<400> 31562

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acacttcaag agataaacaacggaagtat acaaagatta ctaaagccac acactttctg 60
gcataagatt ttagataaa cacttgcgaa cctgactatg gtcaagccgg ggcaggtata 120
tgccacacta gtgcgctgca acatagcagc tacccgaata gaagacatct acagagccag 180
gcaagacatg tgaccatggg aatgcatatc aaataacaat cggagaagct acaaacactg 240
ccacggcaca tcataccatg tagcaagcat gtaaggggag ctgatcacac taataaacgg 300
ctcacgtgag ctgaacaaaa gggaccaaac tgtgggcatc aacgactccg ggcaaaaagg 360
cctacacaaa cgccacctga ggcgaggcat gttgaagtgc ctgacccctc cttgccgctc 420
cgagagacac ccttcacaga gaaa 444
```

<210> 31563
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a07d1

<400> 31563

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gggtgatata atccccacaca aatctttatt gcaattatca atgaatgagt caacaagata 60
taacacatta gaatacagag gtaaaaccct taggtataaa ctacaattgt ctatagctta 120
ataacaaaat gtgacacaat agaaaaagca gccaaactg atatgacctc taaatttcca 180
ccatggagtg aagggtgaaca tgctcaatca gccttctgat tctttggacc aaaaattcct 240
ttgactgtct caaatacctc ttcgataggc cttgcagcat caatcttgcg aacttttccc 300
tttgcatcat aataattaat cacgggaaga ctagactcca agaaaaccat aaatcgctta 360
cttattgtct caatattgac atcttctcta ccctgggtcc tactaagtag tcgcctctcc 420
atctgttgct cagggcactc aaaaaatagg acaaatgctg gttctattcc tgcactttt 480
tcaaatgctg cac 493
```

<210> 31564

<211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a08d1

<400> 31564

aatgatccaa ctgtctgatc ttacacagg aaatttcac caatgcatgg aaaagaagta 60
 acaaccatgt ttgcaacctt acatttaaag tgcttacaca tttcaactgc ggctcaaata 120
 acaatcaatc atcatcatca tccatatttt taacatatgg tcaaaacttt ttatatagga 180
 agatgactta gcaatctata gaaatgcagg tctgggaaat gcttgactg tcaggtctgc 240
 tgataaaagg gttaatcttg acccaaacca gagagaaaac agaagccaac atcactgacc 300
 acagaataac aatggttggg gtgcggtttt ggcgaccat gagacccttg aggaatggat 360
 agagatggaa aatgaccag aaggcaaaga aaacctttcc aaaaagtggc cccaagact 420
 catatcctcc attgagtgc tcaaaaaatg cagcaacaac accaaccata ttaataatga 480
 taagggttgt tgg 493

<210> 31565
 <211> 510
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077a09d1

<400> 31565

aagagtctat tcattaggta tcattcatta agttccattg aagtcgaaa acagaaacca 60
 aaaatacagg atgatgaaat ctcaaaaagc aaaaacaaat gggaatgtag ttaagtaca 120
 aacaaacaaa gtggggtggc ggctacaaat gctttgcaa tttttcacac ttagaagcct 180
 gggggcttgt aggcgatgaa gctgatgcac tgcacttggc gaacgttgtc gaatccgatg 240
 atacggatga agccgttggg gtatgcagtc ttagcctctt gaagctcctt gaacacctga 300
 gaagcatcag tgcaacaaa cataggcagc ttgcacatgg tccagtagcg tccatcgtag 360
 tatcctgggtg acctgttgtg ctacgggtac acgaaaccgt gctccaactc gaattgcaag 420
 caaggaatgc atcccttctt aaggaggtat tgtacttctt ttgcaattgt gcacatcaa 480
 agtctggcac gtaggaaaga ggttaaactt 510

agc

483

<210> 31568
<211> 548
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077b04d1

<400> 31568

gctggttcag tgtttacatt tttcattaca atttccacaa caaagaaata atctaacgtt 60
taatcataat ctaagaatgc tataacatac aaagtactct tctttcctcg atattggata 120
accacaatt cattcggata agaaatctct tctatttgta tttagaggaa gcgcagctgc 180
agcaattttc tcccgcagggt tgaatttctt tgcaattagt ggccggacat catcaacacc 240
aaccaagctc tccaagaacg gaagtaacaa aaacaattct tgatctgaac gatcatcaaa 300
ccaactctcg attgggattc cattatccac ttggaatcca aatgcctgtg gggaattgtc 360
aattattata acatgtgcc aatcacgacc aagcactgtt aaatctttga ggtaattccc 420
ctccacataa acacaggact cacggtatac acggtggcga aatatcttcc gctttggatc 480
aagcacattt aagaagttgc tcggcataaa tgctctgact agcagtaaata ttaataatct 540
caaaaaga 548

<210> 31569
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077b05d1

<400> 31569

attcaaacct aaagaaacac agtaacacac catcacaac tcatgtaacc ctgccaataa 60
accatcacc ctaaactcca gcaccagcag cttgctcact tcaatacaca actcccagaa 120
tttctcatgt caccacgtgg caagcacgct gatgtggagc caagtgttgt gcttacacgt 180
agggtgaccc tcataatac aaccaaagac ttaagcatca tataataata ttaataaagt 240
aaactaaaga aataaaaaga aaaaaaaaaa agaggctttt caacatggca tgcaaaatgg 300
tagacctgat cccacaact aggaccattt ttaaacttgt ttttctcact cacactgtcc 360

ataggtctaa gcttcagtct tctcaacagg aacctctact ggggtttcaa ctgactcagc 420
 tggtttggtc tcttctctg tgggtgctgg tgggtgctgct gctgctgatt ctgtttcagt 480
 agtttct 487

<210> 31570
 <211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077b07d1

<400> 31570

ggcaacaact ttcaaacatt acattacatc ttgaaattg gaaaaggag gacatattat 60
 gaagaatgca aatgatagca actaacctta taattctctt ttgcatttct ccttgatttt 120
 gcaagaaagg caatttggtg acaaaaggga aaatgaaaa gtatacacta tgtagaaaac 180
 tgcactgatt atgcagaggg gagtgattaa aacacgttat tgactctttc actagtaagt 240
 gtcagtacat taaaaaaact tgactgtaca acaaaatctc acaaaataca aaatgccctg 300
 aagaacaaaa aactcaaaat ttggtttttc agtacctctt gttaaattgc acctggaaat 360
 tgagaactaa cagcaacaca tggggcaacg aattagtcca ttttcattgc aatcagggca 420
 acgctggaat ccacactccc ctac 444

<210> 31571
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077b08d1

<400> 31571

gaatctcaaa aattgtccca cttaataaaa ttccaaagga aattgatacc ccattaata 60
 gcctttaaac caccatacat acatatagca agcaactatg aattaaaatt taatgagtta 120
 acttccccta cttgcaaact acacataatt ggaaaatcta agaagttgat cggttgaagc 180
 ctaatcaatt ctacttgga gtgatatgga ggagtcaagc catggcccc ccattgattt 240
 gcttctttgc tctatactat cttctgagaa tgcagaagag acttgagttt gactgtcttg 300
 tgatagcatc tcaaaggctt taaatcttac atcttctgca ctgtcaccgc gtttaataat 360

tggtgcttga attggagttt ttccatcaag catgctcact actgatgaca tacatgggtct 420
aagagtggga gaaggattgg tgcacaagag tgctaactgc agcattctca tggcctcttc 480
tgaggaggac tttgaaccaa g 501

<210> 31572
<211> 491
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400077b09d1
<400> 31572

ggaaatacaa atattattga aaccaaaaat ggagaattag ttctattctt ggaataatac 60
atacaaatca atttacaacg gcaatgctga gaagattatt gaggcaaag aactgcatat 120
attctaatac aatgcacaag agtacgatag gatttctaca gaaaccccg t gatgtttta 180
gaacaaacgt agctatattg gaaatagaat gggataacgt tctaagtaca ataattttat 240
aggacacggg caaatcatct tatggagttg aaattgtagg aattgtattg tgaattggaa 300
aatgtagaag accgtgcttt atcagatttg ggtgaagttt acgaataggt tttctgaaga 360
aagtctctgg cttaaaaaat gactttggct taagggatag gtttaacaat tggaaatgg 420
ttaggtatgg gtttaaaaac tggaatagga atagggttaa caataggaac aggctttgg 480
ataggcttaa a 491

<210> 31573
<211> 52
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmst02400077b11a1
<400> 31573

aaaaaatatg cggggagcta gatgcaggct ccgtagaaca gctatgacgt tt 52

<210> 31574
<211> 64
<212> DNA
<213> Glycine max
<223> unsure at all n locations

<223> Clone ID: jC-gmst02400077b11d1

<400> 31574

gaaaaaaaaag agggggcggg tgatccgatg tcgacttcna gcagaacaat ttccccgatt 60
gacc 64

<210> 31575

<211> 580

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077c01d1

<400> 31575

ctgttcatcg tatctagatt tattcaaaaa ttctacata aggggggttc agcatagcat 60
tggggagagg acagctgcag aaaaactagc catcacacag gtgagttcat ttgccacat 120
cttcaaatcc ttaggaaggt caatgatgca gcagttaaga aagtgaatca tcttctaaag 180
tgttctctca taaagaagga atgtctaaga gcttccttgg ctgtaagtct ttcagagggg 240
tcatatctaa gtaaccctg caagagatgt atgagatcgc cagctgaatg atctacatgc 300
tgcattacaa ggttctgaag cctaggaagc ttcattacag ctttgatact ctccctcgag 360
gttgcaccct caggccagtc taatctaccc cttgtaacat acttctcagc atgtcggtcg 420
actctcttca tcatgggctg tggtaatgaa ccaagtaccc tttccatcat tgcaagatgc 480
tctaaatttt catggagtcg gaaacaagct tcacctgtgc ctaatttaac caatatacat 540
cccacactcc atatatcaca tggatagctc cagccaagtc 580

<210> 31576

<211> 450

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077c02d1

<400> 31576

ctgaaaggaa tctcaattta tatttaaacc aaaaatagag aaggaggtct attcttgga 60
aaatacatat aaatcaattt acaacggcaa tgctgagaag attattgagg caaatgaact 120
gcatatatgc taatacaatg cacaagagta cgattggatt tctacagaaa ccccggtgat 180

gttttagaac aaacgtagct atattggaaa tagaatggga taacgtgcta agtacaataa 240
 ttctatagga cacgggcaaa tcatcttatg gagttgaaat tgtgggaatc gaatcgcgaa 300
 ttggaaaatg tacaagaccg ggctttatca gatgtgggtg aagcataaga ataggttctc 360
 tgaacaaagt ttctggctta aaaaatgact gtggcttaag ggatagggtt aacaattgga 420
 aaaggtgtag gtatcggttt aaaaactgga 450

<210> 31577
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077c03d1
 <400> 31577

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 tctgaacaat catttttaag tacagaaagc tacataactt taccaccaac ttctttttct 120
 gtcctctttc tcaggaaggg gcaggcaaca aatcacatc ttacaaatc ttcaacgaca 180
 tgaattcagg agtttaagtt gttaggatat ctggaattgt cgtggagtga gccccagta 240
 tcttaccacc ggcatcgggg aaattctcac agtcaggtag ggatctaac ttgccatcgg 300
 aatctacctg tgcaggatac ttaagaagat gtccctgcaa aagtgagaaa tcttcagaag 360
 cgaataattg ccaattgttg tctgcaattt tattcacttt atgcacacac tccaatctct 420
 ctggttcttg aaaagtttca tctaactgc caagatgctc tccccaaagt gacat 475

<210> 31578
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077c06d1
 <400> 31578

gcagaaaaca ctgcaatatt agtattcaag gggacaatta atacaagggtg gggtttacat 60
 gttttgccta aaactaaggg cacgagatag attaacatat gcaactttac ctaagcggag 120
 agaacatttt tgcaattaaa attgctgcct accaaatcac aaggcaacat cgggtggacca 180
 agacctctca atatatatat gaatctcgac acaaaggatg aagggaacagg cttttgatgt 240

acaagattta atcaaactgg tcccaaactg gagttacttt gggatgaagac aagttatcgg 300
 atggggcatc cgagctttcc attccagaat caaaggtttc ccattgggtt gtaacttaga 360
 catcattgct actggtgcta aaag 384

<210> 31579
 <211> 477
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077c08d1
 <400> 31579

ggaggtatat ggctctctta ctagaaggta aaatgggcga ccatagtcgt gcccatacaa 60
 tttgatgtat gactgaatgg cattatagat tcaaactcagg aggaggcttg attatggagc 120
 ttatatgaaa gaatacaaaa caaatcaatc atcatgtttc atttttgagg ggtaaaatca 180
 tcattttttt tttattcttt ttttctcccc gcacttgagc aatagaaata catctcagat 240
 ggcacaaatt aaccataat ggcattatta ggtcattgac aaatctgtat caatgaataa 300
 gatattcatc ccaaactgca tgcaaagtca ggtcaagctg gctcttctaa gagaatctcc 360
 gaacagctca ttcccaggca aagacgggag aaactgtcaa tttagaatag atgaacgtat 420
 ctggaaacct tcatcacctt cagaaagcag cggaatctt gtcaagaaat tgccaca 477

<210> 31580
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmst02400077c10d1
 <400> 31580

gcgagataaa cttaagattt caactttgga catggacaat tgggaatact tgactgagga 60
 tcgcaaacia caggctctaa accaccaa atagaacataa tgttgatcac ttcacagttt 120
 gaataatgga gaactatata acacagcagg agcaaaaaca aaaaagaacg aacaataatg 180
 gttcagggtg atgtaacgaa gcatataccc ttttaactcg gaaacaatta cattgataac 240
 aaaaaaaaaa ccttcgatta tcaatagtcc tctccttct catcatcttc cgctccttca 300
 gctccaacct cctcatagtc cttctcaaga gcagcaagggt cctcacgagc ctcagaaaac 360

tccccttctt ccataccctc accaacatac cagtgaacaa aagccctctt ggcatacatc 420
 agatcaaact tgtggtcaat gcgagagaac acctcancaa ctgcgggggtt gttgctgac 480
 atgcatacag cacgcttgac ctttagcagg tcaccaccag gaaca 525

<210> 31581
 <211> 567
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077c12d1

<400> 31581

aaaaatatat attaaatddd tttcactggg tattaaacca taaaccacgt gtttaccagt 60
 ttggtgacaa ctctgggttt ataatcttg actataatgt atgagtatga ccataaaaaa 120
 gcattgcac aacgtcatag taagacataa ttcagtttcc ataataagga cactaggaat 180
 ttattggaat ttaggacatc aaaaacttaa cattggtgta acttgcagaa tatccctcct 240
 ggaagttatt catgcataat agttctccac gaaacaaata caacgatgac aaaaaccaga 300
 attacaagac acattaatgg aaagcactat ctctaaggcc aggttcggta ttttaggctg 360
 cactggcaat ccaccacaga agggatgagc accatagctt ctgcagtttc tacagctttg 420
 accaaaggcg gctcaagcta gcttgaattg acccatgagg ctcatccgtt ggcaagtaca 480
 catcatctc aaacttcaca ataggaccat ccttgtttga gatattgaca ggtaagaaat 540
 gaagatttgg catctttaga ctgacat 567

<210> 31582
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077d04d1

<400> 31582

aactatatgc tttatgcaac gttcatatca gaagggggaa atagtttgaa tcccatccaa 60
 caaaaatcat gcgattaaaa tccaattaaa aaagcataaa gtaaaataag tttttaaacc 120
 aggtatctgg aggaaagcaa ctacatttag tccacttctt caatcttggg gccagcacca 180
 ctttcaccag aaggaggagc agcatactca tcctctggtg caccagcacc acccagtggt 240

ggaccagcac caccttggtgta catcttggca atgattggat tgcagatgct ttccaattcc 300
 ttcatTTTTgt cctcaaactc atctgttct gcaagctggt tgctgtctaa ccaactggatt 360
 gcttgtctcaa ttgcatcctc aatcttcttc ttgtcagccg ggtcaagttt ctcaccaatc 420
 ttgtcatcct tcacggtggt cctcatgttg tatgcatag 459

<210> 31583
 <211> 445
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077d08d1

<400> 31583

ggacatgtcc agtcccatc agtattggct atacgaggaa acaggttaatt tcaatattca 60
 atccaggata cacatgcact tttaaaattt aaacttaaaa gaaaaaatta ttaaatttca 120
 taaaatgcta tttaatacta caacatacgt tgataaagct aaccaatgca aatttacctt 180
 agactaaagt gcaaactgcc ccctttctct cctaaaatat aatgaattag aagaggccaa 240
 gaaaaagaag tatcaaaatt tcagcttctc tttgatgcc atcgactct tttcccttgg 300
 atataaaact tgctactacc tgtcagcttt tggcttaagt gagcaacaga ctctcttgtt 360
 gaagaaaaat cagacaaaat tgaagatgaa tgttcatcaa taagaacttt gagctgtttg 420
 agtttcaatg attctccagg cacct 445

<210> 31584
 <211> 557
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077d09d1

<400> 31584

aagtatacaa atcttttgatt ggccccacac taaaaccaca gtggagcaga gaatatccag 60
 taaatttaca tcacgaagga tttcctocca actaattata cccaagcaat catacaaacc 120
 aatttactta actgacatta cattaagtgc acaacatgta tgcatacact gatgtttctt 180
 gaagccatga atgtcggaaac tatcagatat gaagccacag tagcattcgt tttttcaatg 240
 ggaaaagccc aaagatccaa tatctcatct gtctctgtga acacagaaat actagttgtg 300

002220" ETTT560

cttgcattgga agcattgccc aagaccttta ttgtcatcat gatccatttg tttgggtctc 360
 ttctccaagt agctgttcaa accgagccac aatgtgtttt ccataagtgt attttttcaa 420
 agcatgagca tgaagtctta tgcgagaaag taatgttgct cgctgatttt cagaacagat 480
 ctcaaaaacc ttctggatca cataatttgc aaattgggtct ttcattcattg tcaataaatt 540
 atcattttgt ttgtcat 557

<210> 31585
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077d11d1

<400> 31585

ggcactgtaa tattatttta cacaggacaa atacattggg cataatgata ggcaactaca 60
 atggaatctt tattgcaacc ttcacatttt aggcaacatt gaagtggaca gctaatatca 120
 tgatataaac ataggaaatg catatgtgcc ttacaattta aaagggtaac tacgctatac 180
 tatctcactc gactaaaaaa gacatctaaa gcttgaaggt gtatgcaata aaataaagaa 240
 cttcaaggcc ataataattaa ctctcccaa ctttagtagc gtcctataaa ttaaaatgac 300
 agaacgacaa aattcattcg tgtagtctct gccatttta gtcctctagc agcatcccag 360
 gttttgaaca aacggctatg ttggctttca gaagaaatga acatgttctc aaggaacatt 420
 catcacttgt attgactgca acatgtcaga aacgggaacg ac 462

<210> 31586
 <211> 53
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400077d12a1

<400> 31586

agaanttatg gggggtcata gatgccgcat actgtagaac agctatgacg ttt 53

<210> 31587
 <211> 525
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400077e03d1

<400> 31587

acaaattaat aactctttta ctcaactcga aatttttgct acaaaatgaa ctgcaaaaag 60
aattcccaca aatagggata tatataaaaa gggaaaaaaa tgaaaagaat tccaagaaaa 120
ataaaaaaaaa aacaaccgag acaccaactc ctaatgacct taagggacct acaattacta 180
gacctaagac cctacccttt ttgacctgca tatgtctacc ctttttttcc tcaacttctca 240
ttacaatctt ccctaactg ctaaaataag atcatcatca tctattgctc ctattcccc 300
agtccaaccc tgtacaaaaa ccaatgaacc aaagaaatga aatatcaaaa gaaataacat 360
aagacatgac tctagagggc agcaatgaaa gagaaatttc caacaaagga tcaatcctcc 420
ttcacatcac atgtactcca nggtaaggct gctgttagtg tttggaatga gttcaggtga 480
agcagctgaa ttgattgcaa aaccagattt gtcaaattccc ctgca 525

<210> 31588

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077e04d1

<400> 31588

gctattacct tgaatcaaaa tacttttaat taaaggaact tcgaaagtgc aactgcagg 60
taacagtga ctatcatgaa aacaaaaccc aatcatggta acaaaatagg tatacaactg 120
ccaaaggatc gtagctacat ggggctttta atctaaagac aactgaacag gaattgaaaa 180
gcagccaaaa aggcaagcca gctttatagg ttcttggggg agcattagtt atcaagcttg 240
tgaaataagg gaaaatggac atggccaata tcaatagtct ccacatgttg ggtcccctag 300
gtagaggtgt caaggggggc catgagtttg tcaaaacctg gttgatctgg tcttccaatt 360
taggcagtgg gcttcaggct tcatagaact cagctgcagg gacccatcaa gttttagtaa 420
gcatggtttc tcctccgaga agaaccattc tgagaag 457

<210> 31589

<211> 514

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e07d1

<400> 31589

atcgatctaa tatcaaacct caaataaccc tggaagttgt cacatatttg gtgtccaacg 60
 taagaaaaat tgtaagaaaa cgtacaaata atgctggaaa ctctgtattg taaacacaag 120
 ctaagacaga gatcaacaga ccaacgaaaa cttggacccc gcacaattgt ttcccgtaaa 180
 aatgaacca gaaaaacatt atgtttaatt tcataaaaag tcagcagaaa acaacacaaa 240
 tgccaaataa aataccaata ttagatgtcc aagtccaggt tgacaaaagg cagcaaactg 300
 ctcgaaagat gcagtattca agctttcaaa tatggaccat atggatggca gcagctacag 360
 ttttctttgt aatgatcaca ccgtgcttta atccattcaa aaactaccaa taccggggga 420
 gcaagattca aaagtaaag ttccaaatga tgaaatctta ccaattaaag ttgagaagta 480
 ctatgcccaa ttcctaataa tcatactccc ggga 514

<210> 31590
 <211> 465
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e08d1

<400> 31590

ataactatgg aattttatca cgaaaaggaa aaattttaca tcattgttga ctgggaagat 60
 ggatttttgt ttggtacaca gattgcactc ttgattccaa caacacgatg tacttatcaa 120
 gcatagagac cacagcttca aactcagtta cctgcttctc aatgctatca atctgctcga 180
 catactcgtt aaagctacca ctcttgcatt tgaactgctc cacaaaaacc ctcaaccctg 240
 aagccaagtc accaaaccct ttgtactctt ctgctactct tacattcatc ttctccaaga 300
 gctctagatg attatttgtc ccctgaagct ctgatttgat catgggggaa aactactga 360
 atagaccatc aagcgattca gcaagttcat gttgcttccg attgtggggt tcattcttct 420
 tatattatgc ataggtgagc atatattcga ccattcacia gagag 465

<210> 31591
 <211> 323

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e09d1

<400> 31591

aaattcttga ataaaatagc gatactccgt ggttcccca gggaacgtct tattttaaag 60
 cccatatatc aactaatagc catttggtca acgggggaga ggatgcacaa tggccttgcc 120
 catagccaaa tcaactcatt aagatctcaa gcgagctgct tctaccactt gtttattgcc 180
 tagatcttta ttccaagcac aggatgaacc acatttttca ctgttttagc caattgaaca 240
 gctgctccaa cataaagatc aagcgtgaac tgaaacagat tatgatgggc tctgtctggg 300
 atatccaagc cttcaatgaa atc 323

<210> 31592
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e10d1

<400> 31592

cccccttct ttttttttgg tttttttttt tttttttttt ctttttttcc ttcttttttt 60
 tttaaaaaaa accccaagcc ttatttcttt ttaccccccc ccccccccca cagggggggg 120
 ggggaaacc cccccccccc cccccccccc caaagccccg gtcccccccc ccaaggtttt 180
 cccccccccc ccaaaaaaaa gccccccccc cccccctccc ccttttttaa aaaaaccccc 240
 taaaaaaacg gggggggggg ggggggcccc cctcccccg gcccacaaagg gggggggggg 300
 cctccccaaa aaaagggggg ccccccccg gataaaaacc cccccccccc ccctctttta 360
 aagggggggc ccccatttg gggccccct ttttttgggg ccccaaaaag gccaccctt 420
 ccccccaaa aggctctttt cgccccccc cataaaaagg gggcccccca cctctttcac 480
 aggggggttc ttccgcccgc ctcccccccc ccccccggg gcc 524

<210> 31593
 <211> 469
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077e11d1

<400> 31593

cggacaagaa accaaagggg aacgggttatt ttacaaaatt tcaacaagac ttcattattgg 60
 gataagaatt acccagctaa agagaacatg ttttctatac aagctccttg tttaaagaat 120
 caaagaatga tcttttggtg ggggtattatt ttgaatctat tatttgactg aggatgcaaa 180
 tgtacactgg cccatagaaa acgtttttta ggaatcatga tacacctgca aggggagggg 240
 ggcttgaaat catatgtagt aaaaatttgg gctcagaact ggtatgggta ccctgaaagg 300
 cacctgaaat ggttccaaag ggatcaaaat tgcacatcct ggtgaaaata gcactcactt 360
 ccttgттаг gtgcctagaa gtcttcatgt cacaaacttc ggtggtaatt ttgaaaacag 420
 gattgagcat tggagttatt gcacatgcac tcaggaatag gaaacttgg 469

<210> 31594

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077f02d1

<400> 31594

ggaatcatca ttatttcaaa cctaaagaaa cacaataaca catcatcaca aactcatgta 60
 accctgccaa taaaataaac cctcatccct aaactccagc accagcagca gcttgctcac 120
 ttcaatacac aactcctaga atttctcatg tcaccacgtg gtaagcacgc tgatgtggag 180
 ccaagtgttg tgctcacacg taggtatacc ctccataata caaccaaaga cttaaccatc 240
 atataataat aatatattaa taataaagta aactaaagaa ataaataaaa aaaaaagctt 300
 ttcaacatga catgcaaaat ggtagacctt atgatcccca caactaggac cattttttaa 360
 cttgtttttc tcaactcacac tgtccataag tctaagcttc agtttttctca acaggaacct 420
 ctactggggc ttccactgtc tcagctgggt agttctctct ctctgtggat gctgctgggtg 480
 ctgattctgt ttc 493

<210> 31595

<211> 587

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077f03d1

<400> 31595

gctccaaaag gctcactcat tctttttaat tgtaagcatt ataagggaag tcattataat 60

atacacacat gataacgctc tgagtgttc gccaaactggg gtcacaagac cgtggatgga 120

gttacaagaa agtagagtta caacattaag aaaaggtcta tgagtcaagc tgagcataacc 180

agatgccttg aatcttaaca tccttaggag ctttagcccc caaatcagta tcagaaggct 240

gaacactctc gaacacccca ataacctcac cagtctcagg cttggacttg gtgacactca 300

agggtgatttt ccctttggaa gatgaagcac ttttattgtt ctccttggca agttcctctt 360

catctcctct tccaccagca ggcaaagcaa cagcattgtc ataaccagtt gaggcacccc 420

ttcccttggg gtccaagaaa gaggaaccac ggtaagacgg cactaggaac tccccactga 480

agctgtctgg tttcccagat gccaccaact gcttaatggt gaagaagaat ggcacactct 540

tctcccctgg aagctgttca gtgacagcag catagtcaat tccgctt 587

<210> 31596

<211> 532

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmst02400077f04d1

<400> 31596

cagagcaatg ttaggatttt atttagtctg acatgctttt tacaattcat tatttttcaa 60

tcttttctaa tataatggta ttggaaagaa aatctatatt gatttaacag ctggctacaa 120

tctgaaagta tgtgcattaa gttaaaatgg gcatacaaaa atatgggagt tgtcattggt 180

tattcttcat tgaagcattg aagcacaaag gctgcaacaa attcagctat ttgcagccaa 240

tccaaccacc atttcgttgg atcaatttgc ttcaagacag cagcatttgc atcaaataat 300

caatcagaca tgtaatcttc tgctccacta gactgataat tgtcctggtg tgggtgcacct 360

ctatgttggg ctctgagacc atcatccatt tctaagccaa ctctcttaaa ggaatttccc 420

tttgaacttg tatatacccc agaatccttc cgctcaatcg cagcaacact agaccttcgc 480

cttacagtca ctctggcagg tactggacat tgctcaactt catcaccga tc 532

<210> 31597

<211> 483

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077f07d1

<400> 31597

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cgcatacata attcgagcgg tctaattgttt tacggaagaa gttaataaaa ttatggaaag   60
accttgaaaa aagcagatca ttatagcagc cacacaaaga cactacattt ccatagattg  120
taatccagtt gaagcctttg atttcttctt ctttttggat ccatttttgt tcaactttttt  180
cttgggttgt tccttacta caagttgttt gctctgtata tattgatgaa tggcagacag  240
gggatctgct cgaaagttag ggtcgttgag aacagcagaa attcgatctc tttcagtcaa  300
tactaatatc tgcttgatt tacacttaag tttgccgtca ttctcacaaa ctggtttctt  360
tgatgacttc acctcgggaa gggactctaa aagtgaagat agattatatg ccttcaattt  420
gttctgccgc ctttggtgag tgctcttttt ctttttctta gaaatagact tttgggtact  480
caa                                                                 483
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<210> 31598
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077f12d1

<400> 31598

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cagaaggatt ttttttgggt tttggttttt tttttttttt ttttaaaca aaacaaaagg   60
gggccccctt gggccttttg caaaggccct gaaaccogct taaagggggg ctggtgttgc  120
ccccccaac cccaaacca ttaaaacaac cgggaccatt ttccgcccc tttttacca  180
aacaaggggc aagccccctg aaaccggttc ccgaaaatgg ccccttttaa ttcccccccc  240
aacttctttt tttttttaat cgggaaaagg tttttgcccc catgccaaaga gggcccaaaa  300
ggggggccaa atatgttttt ttgccccaac aaaaaggggg aaattttacc cctcaaacca  360
aaaacatttt tttttcccca ccaggcggcc acttggaata ccccggtct tttaaacttg  420
ggcccg                                                                 426
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<210> 31599
 <211> 527

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077g02d1

<400> 31599

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 caaaagtatc gaagccaacc atataaatcc caacttatag ggaatttcta aaaaacacat 120
 gggcacactt tatgattaca aatgagagat gccttattcc gaagaagtta taaataacat 180
 ctcacctgtg atttcagact aatttagata atgcacatgt ataaaaaaaa taatgaaacc 240
 tctcaaaaca tatgttgtat ctacaaacac caccacaaa taacattttt ttttgcagtg 300
 gcagtttctca ccaacagatc cagggatgtg tcatgtgtct ttgacaaaaa acttatgcat 360
 gttgcagatc ttatcagtgt aaaacgtgaa accatggcat gcccttccat tttttgttac 420
 ctttagtcac aattcaatgc acagatttcc aacaccacat cacttttggc caagaatggg 480
 ttgatttctca cccaaagtag ggttaaagat tgaagacagg agaatag 527

<210> 31600
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077g03d1

<400> 31600

actaggaaca tgccagctct agcatccaaa atgtctcgag cttacacaat tcggggatta 60
 aagcaaaccg agtttaagac ataaagttga agaaaagatg tacataatca gctagattca 120
 agtctctctt atgcaggcat acatctacaa ggggggggga tttcacttct ttcacttctc 180
 tgagcccttt caaggggcac atcctcgaag tgtgttcaac atcaaaagca tgagcttctt 240
 aatgggcagg ataagggaaa gtggtgaatg cacggtgcgc atggacagca caggcacaat 300
 gcactgatgt caagttgagg cagccactca tgatgagtga gtgcctccct gagcatgtgt 360
 ggagagaagg gaatgagtca caaacagctt gaacagcaga tggggtgagt gcagtgcatt 420
 ggctaattgtt caaagtcctt aaaccatctt tatcat 456

<210> 31601
 <211> 508

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077g04d1

<400> 31601

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attcgacaac tgtgtaaatt tcttttgagt gacaccaaac ttgggatagt caagatgccc 60
aactccacga cagcgcttat tcacggggca tacaaaatac aaaataacaa cagctaataca 120
tgaaagaaaa acatacaaac ataaccacag taataatatg aaaccagtga acaggatttg 180
aatcaacgca tcagaggaga ggtttctatc tgaccagagg attgttgatga gaaaaataaa 240
aaatgaaacc caacacaaag gcaaagtccc gcctgcacaa gggactaata tgagctatcc 300
tatgatattc gatcacaatc tgagacgatg tggtttgaga gtcttgtaag tcaactggctc 360
agaaggtgga ctagtgggct tgctctgcct cccccagtac gatttgcacg gaacgtagta 420
aaatgaattc gggttcggac atgttttctt tgttttgtaa aactggtagc attctttggg 480
agacttttgg ttaggaagcc ccggaatg 508
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<210> 31602
 <211> 544
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400077g07a1

<400> 31602

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gaggaacgct agggactctc atgttctttt gttagcttca cttcccattg ggtttgccgt 60
cttcatgggt cacttggtta caatccctgt cactggaacc ggcattaacc ctgcaaggag 120
tttcggacca gctgtgatct tcaacaacga caaagcctgt gacgaccaat ggatttactg 180
ggttggaacc tttgttgagg ctgcggtggc tgcaatctac catcaatata ttcttagagg 240
ttctgcaatc aaagctcttg gatccttcag gagcaacgct taattaaaaa aaaaaaaaaat 300
caagtttctc cactacctaa attatgatga tttggtcctg tgtcacccaa aacaagaaca 360
gtgtttcagt tcaagtctgt ctacaggctc ctctcttttg gcttttctgc ttaccctggg 420
gtttggggga aaagccaaat accgtgggct cttgaatttg tagataagaa tgcttttatg 480
tcaagggtgt atntgtatcc cttttgtttt taatttcttt tttcttccaa gtatttatca 540
```

tcat

544

<210> 31603
<211> 466
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077g09d1

<400> 31603

ccacaaatca gctcctgtaa ttaaggatgg tgattctata caaaagggtg gtactgaata 60
aaacctaag atccctaacc ccaatgaaag acttctaagg attgaagaca ataatacact 120
ggccaaatga tacacggatt aagacacaat ataatgccat aacattttga tagctatttt 180
aaaagtggga ccccccacact ggttttgagc atgctttcct tacacatttg aataaacatc 240
ctatggggtt cttgcctcta caacaattca ataatccttg ctcaggcatc atcacaaaca 300
atccctaaaa gatggaaagc ctctgtgtc gcaatgatga accagatgat ttggtatctt 360
cagggactac aaaagtaggg ctattggaac tccctgaagt ctctgagctc ctattttctc 420
cttggccttt cccacaatc cataacttgt caaaaattct ccttga 466

<210> 31604
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077h01d1

<400> 31604

aacactcaaa atctaaaatc tccattgaac gaaaaactga atataaagta aagatcaggc 60
cgataaaacg atctataaga gatggaaaat tatcattgat tccaactaca gacacgtgtt 120
tctagaaaac taaacaaaaa ataaagcaga aaacattata cttggggaag atttgagctg 180
gttggcgctc caaaaccacc agatccacga ccaaagccgg gccttccgcc aggaccccca 240
aaagagggcc tgtagtcagc aggagctcct cccttgtctc ctccaaagtg accaccaggt 300
cctgctgggg gacctccacg gtatccatca cgatcaccac caaacctacg ctccccttca 360
aagcgtgggtg gacctctagg gcgatcaccg gatgggcctc caaaggcct gccaggtggc 420
ttggcttgct tcttcaaagt agcagggaca atttccgaag gaaagttaag gtaagttctg 480

agaaactcga t

491

<210> 31605
 <211> 560
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077h02d1

<400> 31605

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 gcaacatcaa acgaatatca ttatatacaa gagatgtcat ccataatcaa caatacatgt 180
 gagtgtttgg tttgccgttt gcacagctcc aaactccgtt cacgtgttcc atagcagcaa 240
 acggaacagt tatatacagc tggattggaa aaaaaagggg ggttacgtcg aaccaacat 300
 ttttccaaac acgcagaaag gcttcaacag aatgttattc atgaggcatc aactgaaaca 360
 gccaaagcat tcagttgaac gtgttggtta ccctcactgt ctgggtgaac aatgacagta 420
 gcatgagcct cagaataaga ttgattggct ccttcttggt aaactgatat ggaacacact 480
 ttatctgctg tgctgctttg gtcactctgg actttggaaa taatttccca ttcctcttta 540
 agggatgcta cttctacacc 560

<210> 31606
 <211> 578
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077h05d1

<400> 31606

aagcttccat gtaaaattta taaacttgac ttgctacaat ctaaatagat ggtatactgg 60
 tgtgtttggg tcctgcggtg tggtgaaagg gatacaatta tttttttcac attcaatctc 120
 accacaactc tttgtagcct ccagatttct acataaaaaa tgtgactttt gtggcgccag 180
 catgaaacca agcatcaacc taatacagtt tacttaacat gattatgtaa aatagagatt 240
 tattttacact tagttcttat ttttaagcttc acattctgga aaatgtgtag tccatcgcat 300
 ccacaaggaa gtctgcatct tcttttggtga aacatagggg tgggtgtaatt ctgaatacat 360

ttccataata gccacccttt gcaatcagca ctccctaattc tttcatttgg tccatcacat 420
gcagggtttc actttgtgct ggtgttttaa gtttgccatc actgacaagt tcaactccaa 480
gcatcatgcc tcttctctta acatcaccaa ttaattcata tttgtccttg agtgcattga 540
gtctcttttt caaataagaa cccactacaa aagcattt 578

<210> 31607
<211> 544
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077h06d1

<400> 31607

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gcgaagtgc attaacatta caacccttta tttcttggaa aaaattacag acaaactaag 180
aagggttcagt tccactacat ccattagtag caggaattgc cactaattga cattttaagg 240
ttggattcaa aaaccgtcaa atataaatgt aggaagaaga aaggacaagg actactacat 300
cactgttata cagcccaaac ccttgtgctt ccccttacct ctgttttttt ggtcatttcc 360
ttttaatcaa cacttcttca tttaggttct tgtggccata atgtgatgat cactcattg 420
gccatcatca ccttaacgaa ctctcgtag tttatttggc catctccatc aacatcagcc 480
tcacgaatca tctcatcgac ctcttcacg gtgagggttc tcccgagggt tggtcacac 540
atga 544

<210> 31608
<211> 505
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmst02400077h07d1

<400> 31608

ataaagctcg agtaataagg ataaaatgca agtgatatca gagtaatata ttgtgtagag 60
tatttggttt atatagtttg taattacggg cttgtcagaa tgtgtatgga ccagcccatc 120
agcacaagtt cataatatac aatgttcact attgttttaa tccgtgttct tcctgttgga 180

tttcataacc tattacacaa ctgattgata gcatgggcta aacaaactgc agtattttaa 240
 tatggcacca ttttctttcc gtgagtaatg tagctgtac tggttttatc aacaagaaca 300
 acattaacct cacatagctc catctttgct tgaactctgc tccatgtcag tctgatcttg 360
 ccatggccac ttcagattag aagatgagga gcactgctgt ggaactgaaa atgaatatga 420
 gcttgactg gcacactgct tcttacatga tgaaaaatca gctgtggagc aaatgtcttg 480
 gtcaatgctt gacatgccag aatct 505

<210> 31609
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h08d1
 <400> 31609

aaccatatgc ctttggcaec cccaacaagt attaaatata aatatatctt acagcaaaag 60
 atacaaaata cacatctaaa aagaattcat aaatatatac cacgcgggct tttgtgctca 120
 tagatccaac ccgagaagca attgaggaac taagaatgga caagcgtagc tacaacaaat 180
 aaggttgaga gaatttgctc cttttaagaa gagaacaaaa aaaatgtgga ttgttcatct 240
 agtcttgaag ccaaaagctt caatgccact caatcctaga agagatgtgg aaatagaggg 300
 ttgaaaccac caaaaacaac cttttctcca tttttttttt gtttttcctt agaaggaagt 360
 ttagagatga ttttactcaa agcagaagag aagctataaa cacggccaga gtggacaaga 420
 agaagcagac agtgacttta ggctgtgaat ttccctgtgg agatttggtt ccggcattcg 480
 ggctggaagc tggggctatt ttagcaaca 509

<210> 31610
 <211> 487
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h09d1
 <400> 31610

acaagagttg tattatgaat tttttatcta aaattataaa gacgggcaat tacagccggg 60
 gaaaaaaaat ctgagggtt cccaatata gaaaaataat acatcctcat tctcaaaacc 120

ctgtggattc acctgttaac attgttaggt ttccccacac atgaccagag gcttcctcca 180
 aaaatttatt gtcttcagca acaaacctat ggaagtgtc aggtctgact caaaacctta 240
 atcgacttg atatttctgt agatcctcct cacgaacaaa tttgaaccaa gaaaaccac 300
 agctccacat agaattccta gtccaagaga aaacatcgaa gtgtatccaa aataaaagct 360
 ggtgtggaag aagcctgaca tcttcgtctt cacatagaag tagtatattg agtaciaaata 420
 aacataaaca gctgttgagg cagctgaaaa gaaagaagtt cattgccagt ggttggtctc 480
 agcattt 487

<210> 31611
 <211> 330
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h10d1
 <400> 31611

ggtaataata ttttatgatt atgtcaacaa cttgatcaca tatgggaaat gttctattac 60
 aacagagaag gaaaaaata gatatatgt tctatctaca atctctcttg aatttgaata 120
 tacaagattg aaaaagataa taaacagaag caatcaacaa atcgaccca caagcaggtc 180
 tgtaaacaca ttctctgcag gggtttgaat ttcagtcacg ctcatatgca caaattggaa 240
 gcaatcaata aataaataag ttggcttttt atggactgtt accaattgaa aatttcaagt 300
 tatcaaaaag gcttggatcc ttaaaaatgg 330

<210> 31612
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400077h11d1
 <400> 31612

gacaaaaat aggcatttct aaagccttgt ttacacccat aggtggcagt taggagcact 60
 gaaatacata aaagacaagg ccagtatcaa attatggaca aaacaagaaa aactaaggga 120
 tgataaaggt cattataaag aattctatga agagtatgcc aatgcaatca cataggctat 180
 ttccttggtg aagtgttagc aaaaaactcc cagatagcaa gtaaataagac aaactctgaa 240

aattgcaaat cctttttaag tctcctttct ccggcgtaag atgaaactac cctggcaggc 300
 aaattctgct ccagggtga atattcgta agagattggg caacaatctt acattttatg 360
 atatcatatg caccactcca tcagttatca tgactctat 399

<210> 31613
 <211> 573
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400077h12d1

<400> 31613

gaaatcatat tttatTTTTT ttgacaagat agagtaagga tgagacacac gattgatact 60
 accaaaatcc acaagataga gtacattgtt tttaacacaa cagaattcta tggactacca 120
 ttaagcagca ataatttcta gatgaaagca acccaggtag atgttgacgc aacaaccttg 180
 gcaaaactag atgacaaagt tgaggggaga tattattaaa gattgaacca atttgtgcgg 240
 gcttctactc ccttgtctac ctgttactat aagccgcata ctaatgtcta agagctcaac 300
 tttgactatt attattaact gggtcgcttt gtttctccat attattttga gcatgaaatg 360
 aaaatgacag tatgttcctg tcagatttgg agactggcag atatggagct tgcaaggctg 420
 agaatctcaa atggtggcct attcatcacg tctttcactg ttaaggggca tgaatctgtg 480
 atccagaaat aagtaaagtc agactctgga tgcccccat atcatgtcca aagcgtgccc 540
 atgatttatt tgggaaaata ccatgagtca cgt 573

<210> 31614
 <211> 560
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400078a01d1

<400> 31614

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 gggggggaaa cacaatttaa tctgcaggaa acgccccaaa gaagtgagga aattggaaat 120
 ttttgtctcc tcagctctat tagtccagga atcaggatca aagaagcaat acctactgtc 180
 aacaaacatg tgaattcata aatacattac tgaataatgt tcaacattaa ttaggctggt 240

tgaatcataa gccttgtatg gatccacca aaacatcgag gatttccatg tatcaataac 300
 agngaactctg ttttttcttt ccacttttgg ctgaatatc tccagcatct caattttggt 360
 agtacaattg ggatctaatt aatttcctac cttccaagca gaaatgtaac taagaagtga 420
 aaataacaat aaagagtaaa ggagaagtat attttattgg cagcaggttt aacctgaact 480
 gaatacatat catatattaa gaaggatgaa cttttcagaa gagagtcctt tccaagctga 540
 tttcatggaa gcagtggctg 560

<210> 31615
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078a02d1
 <400> 31615

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 cgaagcacac tgatcacagg atgatgctct ctttaagtag ggaagcagat cttatcagta 120
 cacataggta ggttgaaatt ctagctctag caatctagct agagaaggta gtacttgcac 180
 aacacacagc acatgataat ttattttata cacaatctca ttctcatggg gctcaagatg 240
 catggactaa ttaagcaaca atggttggct gataggcagt gtccacagat aaattgggta 300
 ccataaaat ggccttgctt ccaaggaaat ggcaaacagg gttagttcca ggatcaactc 360
 ccataagttg atgaagcatt tgatgattca ttccagaagt atttgagtgg caaatagcaa 420
 gtgcctgagt tttggttcca tcaccagcca ccaatggaac catgaaagct gttgttttac 480
 ggacttcatg gcagtaaaat actgcagttc tgaaatttag cctatgacac atcact 536

<210> 31616
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078a03d1
 <400> 31616

attaacttgg gaaagtgtaa gatcacacag tatatagtat cagttacata cattacagta 60
 aaaacattta ttcttttagct agctagcctc tggatatcata tcatattatc tatatttgg 120

tcacgtacga aacattttgt actcccaaac acaaaaaaac aaagatcatt attccttgga 180
 ttgatgaggg tgatgatcgc tccaacaata agatggaaga acgcgcggtt gcaacaactt 240
 gcatgcatgg gcggcacaag agagagagat tcgatgaatg aagtaagtaa gtaataatgc 300
 gatcgatcac ataattgtgc aagcagaggt gttttcttca cagaaatatt catcgcaacg 360
 gctcacgtaa caaggcctgc tcccaccgta actatcataa acaggccttc cataataagc 420
 gtcataacat ggtggggggc caccgccgta ccataaagc atggccaccg ggccgacttc 480
 tagcatggac acagcaaccc caatcggacc accac 515

<210> 31617
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078a05d1
 <400> 31617

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 ttcccaaaaa atttttccaa aagggccggg gggaaccccc ctccgcccg ggccccctga 120
 aaaaaacccc ccctttttct ttgggggggg gaccccccca aaacctggg ccttgggagg 180
 ggggaatttc ccaaaggggg ggggcctttt gccccctta acccctttgc caaaaaagg 240
 ttttccccct tggaaggggg gatggctttt tcaaaaaaa atttttacc gggggggggg 300
 aatatttttt tgccaaacaa aaaaggga aaacccccct cccccccca agggggcccc 360
 catggtgtta caaaggggg gacaaaattt ttttttccca gccccccctt ttggccaagg 420
 ggccaaaatt ctacttgggg ttttacgggg gccatacag gaattttttt cc 472

<210> 31618
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078b01d1
 <400> 31618

gttgatgat tttatttaat tagacgcaga aaaatcggaa gaaattcaag aattgagttc 60
 caaggaacaa agccaaatgc cttaatatct cagtgatatg tattgtacat taagtaagat 120

tggagaaaaa catgaagatg aatgatttag agagttggag ctctctcagc agatccagaa 180
 atgacagtga gcaagttggt gccaaaaggg tctactgagat gttttgcaag gttctcaaca 240
 ggaccttctc cagtgcata agcttggaag tagaaaccaa gcatggcaaa catagcaagt 300
 cttccatttt taatttcctt cacctttagc agtgcagctt ggtctggatc atttgcaagc 360
 cccaatgggt caaatggacc acctggatga agtttgtctt cgaaattcag gccattaata 420
 attctgtagt actctgcacc tcccacaaga acaatctcag caatgacagc cacaataaga 480
 ttgatgggga tgg 493

<210> 31619
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078b02d1
 <400> 31619

attctggaaa tcgtaatagc tatagacggt aagaacgaag ttgggtccta aagatcacta 60
 tcattatcgc tgaacaatgt tatttaacaa aagtatcaac cacaataaaa aacaacaacc 120
 caacttccca atcatcgta cgtccagcaa aatacattca aaagctatct aaaatctggg 180
 gaaccacat tggcattaaa aacctgacc atacaatttt ttagagaaat attatgggca 240
 ccatgcctct tcaacaatcc cctaaacgtt gcttaggcat cagcaaacc aagctcggaa 300
 agcttttggt gagcctcagc gtaatcagca aagaaggcat ctctgctcgc tgcataatta 360
 tcaacgagag ggcggaatac agggtcagac aaaagagcct tgtcagaagg tagctgaagg 420
 agaaccttct tctaccactc aacac 445

<210> 31620
 <211> 539
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078b04d1
 <400> 31620

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 gtgtactcct cagtttacag gaactcgatc catatttacc aaaactacct tggagatttt 120

gtagacagac atttcccaca tgagacaaga ttcagcagtg cacgtggctt tcggcttcga 180
 attttcaagc gtgacagctt tcgccgggtt actcttgatg ctttccagca tatcaagctc 240
 cttgatcttg gttccagtct cagattctct tgttcaagct tctcagcaat agaaaccgct 300
 ttacgttttg accaccct tctctgacct tctgcctggt ggatcacatg agcaagagat 360
 actttgcttc ttacaagact tcgactttga ccttgctcca taagctttct ttcgtctaaa 420
 tgcgacttaa caattggcat tttttgggaa gctgatgatt gtcctatact tgtaccttct 480
 aaacttttat aagatgttcc atgagcatca acctgctgct cgctattaat gtgctccac 539

<210> 31621
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078c02d1
 <400> 31621

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 aataaacct catccctaaa ctccagcacc agcagcagct tgctcacttc aatacacaac 120
 tcctagaatt tctcatgtca ccacgtggta agcacgctga tgtggagcca agtggtgtgc 180
 tcacacgtag gtataccctc cataatacaa ccaaagactt aaccatcata taataataat 240
 atattaataa taaagtaaac taaagaaata aataaaaaaa aaagcttttc aacatgacat 300
 gcaaaatggt agacctaatg atccccacaa ctaggacat ttttaaactt gtttttctca 360
 ctcacactgt ccataagtct aagcttcagt tttctcaaca ggaacctcta ctggggcttc 420
 cactgtctca gctggtttgt tctcttctc tgtggttgct gctggtgctg attctgttct 480
 tg 482

<210> 31622
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmst02400078c03d1
 <400> 31622

aggacaaaca attaaacttc ccatttggat aaaaaaatg gtttaaataa attaatacct 60

gatcatgaaa ctaagcagta tgagaagggt ggtgctcttc ctggactact tcatgttgct 240
 cttgctcttg ctgtgggttt tctccttgcc aggtccaaac aatgtcctta agcgctgggc 300
 ttatatcctg tttaaaaagc ttctgggtact ccatgggtgc accattggac tttctaagtt 360
 ccaccatag gaagtgtggg gtaatctcaa aaatctcagc atcaacaccc agagttcctt 420
 tcttgcttc cttggaacct tccaatttga gcaagcctcc atctttcttc ttac 475

<210> 31625
 <211> 360
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078c06d1

<400> 31625

acaatataaa gtttagaaat gatgcacccc cccgggggca cgggggggggt tactgccccca 60
 atccccacca taacctacct cgatcttaac acaacagaat tttctggact accattaagc 120
 agcactaatt tctagatgaa agccaccag ggagatgttg ccgccacaac cttggccaaa 180
 ctagatgacc aagttggggg gcgattgttt taatgattga tccattcgt gcgggcgtct 240
 actcccttgg ctaccgggta ctataagccc cataactaatg tctaagagct caactttgac 300
 tattattatt aactggggcg ccttggtctt cctttttttt tgagcctgga atgaaaatga 360

<210> 31626
 <211> 571
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmst02400078d01d1

<400> 31626

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 gtgaatcatc ataactacat acaactcatg gcacagctt taaaatacag attttatgag 120
 catgaacgca acctctacgc tttgacgca tacagtactt tgtgcaactc aacctcaaag 180
 ttgtcttgct atcgaaacct ctaattcttc gcacattggg cctgaaaagc tttcaacaga 240
 gaatagcagt gcttggtgct accggttgct gcagcatacc tctccttcag atcattacga 300

attctctctt cttcttgaag tctacatga accctttcta gcttctgttg acttcccttg 360
 acaattcctt ccatggaatg aacaagtttt atacgtccat cagtgtact aaaggcctct 420
 tgaaactggg aaatgatcga attcaataaa gatgtttcct ttagcatcaa ttcttttatt 480
 tccaagagag cattgtaggt agcatagtat ttacgagttt gtcgatgttt tccctgggat 540
 tgtgcataca gttctgagag cgggcgttcg t 571

<210> 31627
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400078d03d1

<400> 31627
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 ccaaaaaaag gaacaagggg agagggaac aaacaaacaa aaacaaacaa acaaaccgca 120
 aaaaaaagga accaaagaca ccaaaggcc ccccaaagaa aaagaagggc aagaaaaacc 180
 aaaaaaagag aacccccccc cccccacgc gagaaaaaaa ggcacgcccc acacggcccg 240
 ggcgagggga ggaaaaaaa gcacaaaagg gccacaaaa aaaaaacccc cggggaacag 300
 ggcaaacc 308

<210> 31628
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078d04d1

<400> 31628
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 aaggacaatt acaaatgtag caacaagccg ttacagcatt caaagttctt gtaaacttat 120
 aaaataaatg ataaacaaca tatattacac agaacttcct atctgaaaca agccaaaaca 180
 gatagctatt tttctttttc ctctcctttt gaaataacac ctggtttttc tatgataaaa 240
 aagaaatcca attgcaatca attgcaataa caagcagctc atactaatat tactaatgct 300
 ctctaaatat cataactgag aactaaaaag gtgggtgggat gctgatatgc aagattatct 360

atcacctcac atatacatcc attggacttt caccatatga ggctgggttaa taagataaac 420
 tatagactcc ttttttgatc taagattgta tgaagtatcc acaaaataag aatggccatg 480
 taccaacctc ttaggtcaag catttatttc tgaattgcat tgatg 525

<210> 31629
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmst02400078d05d1

<400> 31629

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 gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaacactc caagttgaag 120
 acaaacccaa atcacatcca cacaagtaaa aacacgtggt atggtactta gtcgaagaat 180
 tcccaattga acttgggagg acctgaatta ttggtcactg aggaggggtgg ggggtggtgat 240
 gtggccttga cagggattaa tgggtgggaca gaatcaaaca actcccaatt tgtggtaact 300
 acaactcctg aggtggaatt ccttgagggt tgttcttggt gctcttgata tagtgctaga 360
 gaattctcac ttgagttcct tggttgttct tgttgctgct cctgaattgg tgctaaggct 420
 aatctatgac gtccatatga atgcttttgt tgggtgctctt gaattggccc cttcctttga 480
 ccaattgaat gcttctgatg gggctttact gngctnggc ctccatngct actaagcata 540
 gaattcttaa ctttcagcac atcaag 566

<210> 31630
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078d06d1

<400> 31630

atgattcttg gattttataa agaccatcat agacatagat tttattattt ggattcacac 60
 catctctcat gccccgatg actcttactt cattgtgttg tcgcgaactc ctatccaaag 120
 caagattacc cctttgaagc ttctggtcag ttgtgtgctt atctttattc atgaagaagt 180

tcccaccctg accagtataa attataacat cactatcctc agcatcatcg tcatattctc 240
 ctgacgaaac aatgcacaca gccagagttt cctcctcaaa ctcacccctg atatgcaagg 300
 catcaattcc acccatggag ggagcatgca agcccacaat acacaattcc attcggaat 360
 aaaaaatgtc accaatctca atoccaggaa ctgctcctat tctcttctc atgtttggcc 420
 gaattcctct ggtcatcaaa gtattgcaag ctttcaaate tgcacgcttg atcg 474

<210> 31631
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmst02400078e01d1

<400> 31631

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